UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE in cooperation with STATE AGRICULTURAL EXPERIMENT STATIONS

COMPARISON OF

WINTER WHEAT VARIETIES GROWN IN COOPERATIVE

NURSERY EXPERIMENTS IN THE

HARD RED WINTER WHEAT REGION

IN 1988

C. J. Peterson Research Agronomist

This is a joint progress report of cooperative investigations under way in the State Agricultural Experiment Stations and the Agricultural Research Service of the U. S. Department of Agriculture containing preliminary data which have not been sufficiently confirmed to justify general release. Interpretations may be modified with additional experimentation. Confirmed results will be published through established channels. The report is primarily a tool for use of cooperators and their official staffs and for those persons having direct and special interest in the development of agricultural research programs.

The report includes data furnished by the State Agricultural Experiment Stations as well as by the Agricultural Research Service and was compiled in the Central States Area, U. S. Department of Agriculture. The report is not intended for publication and should not be referred to in literature citations nor quoted in publicity or advertising. Use of the data may be granted for certain purposes upon written request to the agency or agencies involved.

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE CENTRAL STATES AREA

COMPARISON OF WINTER WHEAT VARIETIES GROWN IN COOPERATIVE NURSERY EXPERIMENTS IN THE HARD RED WINTER WHEAT REGION IN 1988

Ву

C. J. Peterson

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The writer expresses appreciation to Joyce Kovar for assistance in preparing this report.

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U.S.D.A. Southwestern Great Plains Research Center	K. B. Porter
NEW MEXICO AGRICULTURAL EXPERIMENT STATION: Clovis	
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Lahoma North Central Research Station Goodwell	R. J. Sidwell
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Manhattan, Kansas State University Agronomy Plant Pathology Entomology Hays	R. G. Sears T. S. Cox* T. L. Walter G. M. Paulsen L. E. Browder* J. Hatchett*
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COLORADO AGRICULTURAL EXPERIMENT STATION: Ft. Collins, Colorado State University Agronomy Akron	J. S. Quick G. Ellis R. Normann
Central Great Plains Research Center	J. S. Quick G. Ellis R. Normann
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Julesburg	J. S. Quick G. Ellis
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NEBRASKA AGRICULTURAL EXPERIMENT STATION:	
Lincoln, University of Nebraska Agronomy	P. S. Baenziger C. J. Peterson* M. R. Morris P. J. Mattern W. G. Langenberg* R. C. French* R. A. Graybosch*
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Clay Center South Central Station	P. S. Baenziger
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WYOMING AGRICULTURAL EXPERIMENT STATION: University of Wyoming,	
Division of Plant Science Torrington Substation	J. Krall D. Smith
Cheyenne Archer Substation	J. Krall F. Hruby
Sheridan Sheridan Substation	J. Krall R. Hybner
SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION: Brookings, South Dakota State University Plant Science Highmore Presho	J. L. Gellner R. A. Schut J. L. Gellner J. L. Gellner C. Stymiest H. A. Geise
NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION: Fargo, North Dakota State University Agronomy Williston Williston Branch Station Hettinger Hettinger Branch Station Carrington Carrington Branch Station	D. J. Cox N. R. Riveland D. J. Cox D. J. Cox B. G. Schatz
MONTANA AGRICULTURAL EXPERIMENT STATION: Bozeman, Montana State University Plant and Soil Science Moccasin Central Agricultural Research Center Sidney Eastern Agricultural Research Center	G. A. Taylor G. D. Jackson J. W. Bergman
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Southern Experiment Station

R. H. Busch* W. E. Lueschen

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ILLINOIS AGRICULTURAL EXPERIMENT STATION:

Urbana, University of Illinois

Agronomy

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MISSOURI AGRICULTURAL EXPERIMENT STATION:

Columbia, University of Missouri

Field Crops

A. McKendry

P. Rowoth

CANADA DEPARTMENT OF AGRICULTURE:

Plant Pathology

Lethbridge

Canada Agricultural Research Station J. Thomas

REGIONAL NOTES

The 1988 Hard Red Winter Wheat Breeders field day was held on June 9th at the University of Nebraska Agronomy Farm in Lincoln, Nebraska. Cooperators also visited a Pioneer wheat nursery near Beatrice.

The 1989 Breeders Field Day is to be held at Stillwater, OK in late May.

The 18th Hard Red Winter Wheat Workers Conference was held on January 31 through February 2, 1989 at Dallas, Texas. Proceedings from the conference will be available in the near future through Dr. David Marshall, Texas A&M, Dallas.

Dr. Owen Merkle, Research Geneticist with the USDA/ARS at Stillwater, OK retired on December 31, 1988. Dr. Merkle accepted a position with MIAC Morocco project and is now stationed in Settat, Morocco as an Agronomist.

Dr. Kenneth Porter, Texas A&M Wheat Breeder stationed at Bushland, TX, retired in August of 1988. A replacement has not been named at this time.

Dr. A. D. Hewings was hired in 1988 by the USDA-ARS at Urbana, Illinois, replacing Dr. H. Jedlinski in small grains virology research efforts.

NOTE: The response reaction of entries to leaf and stem rust infection has been coded on a 1-9 scale to facilitate generation of this report. This same scale has been used in past reports. The response data can be interpreted as follows:

Response scale		Reaction type
1	_	VR
2 3	_	R
3	•••	MR
4	_	М
4 5	_	М
6		М
7	_	MS
8	_	S
9	_	VS

NEW VARIETIES AND GERMPLASM

The following is only a partial list of new wheat varieties and germplasms available in the region. Included are those for which we have current information.

VARIETIES

The Kansas Agricultural Experiment Station and the USDA/ARS have announced the release of the hard red winter wheat variety 'Karl' (P.I. 527480). Karl was tested in the 1986 and 1987 SRPN as KS831374 and originates from the cross Plainsman V/3/Kaw/Atlas 50//Parker*5/Agent. Karl possesses excellent milling and baking qualities with grain protein concentrations approximately 1% higher than Eagle or 2% higher than Newton. Karl is resistant to soilborne mosaic and spindle streak mosaic viruses and provides excellent protection against leaf rust and tan spot.

The Colorado Agricultural Experiment Station has announced the release of the hard red winter wheat variety 'Lamar'. Lamar was tested in the 1987 and 1988 SRPN as CO820009 and originates from the cross 74F878/Wings//Vona. Lamar is a conventional medium height wheat with excellent quality. Lamar has shown significant tolerance to water stress and ability to fill grain under drought stress conditions. It is targeted for production in southeast Colorado.

Nickerson American Plant Breeders has announced the release of four winter wheat varieties:

'Bronco' is a hard red winter wheat derived from the cross Payne/W87-069. Bronco is a medium maturity, tall semidwarf with adaptation to the major wheat growing areas of Colorado, Kansas, Oklahoma, northern Texas, and southern Nebraska. Bronco was tested in the 1988 SRPN as NA-W83-256

'Rio Blanco' is a hard white winter wheat derived from the cross OK1125A/W76-1226. It is similar in many respects to its sister line Mesa but differs in that it is recessive for all three alleles for red seed coat. Rio Blanco is a medium maturity, short to intermediate height semidwarf with adaptation to the major wheat growing areas of Colorado, Kansas, Oklahoma, northern Texas, and southern Nebraska. Rio Blanco was tested in the 1988 SRPN as NA-W81-162W.

'Sierra' is a hard red winter wheat derived from the cross W79-227/Payne. Sierra is a medium maturity, intermediate height semidwarf with adaptation to Kansas, southern Nebraska, eastern Colorado, and the Oklahoma and Texas panhandle irrigated areas. Sierra was tested in the 1988 SRPN as NA-W84-229.

'Waco' is a hard red winter wheat derived from the cross W77-355/MN70113. Waco is a very early maturity, intermediate height semidwarf with primary adaptation to the north-central and northeastern portions of Texas. Waco was tested under the experimental designation W83-253.

1988 Southern Regional Performance Nursery

No.	Entry			_
2** Scout 66 3** TAM-105 3** TAM-105 4	NO.	Variety or Pedigree	Sel. No.	Source
3** TÂM-105		Kharkof		Check
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40* W79-227/Payne NA-W84-229 NAPB 41* Payne/W78-069 NA-W83-256 " 42* OK11252A/W79-1226 NA-W81-162-W " 43* IL77-4259/IL76-3845 IL83-7439 Illinios 44* TX69A330/IL76-3820 IL80-1251 " 45* CHA Hybrid Mustang/3/T-105*4/Amigo*4//Largo,				Cargill
41* Payne/W78-069		· · · · · · · · · · · · · · · · · · ·		11
42* OK11252A/W79-1226 NA-W81-162-W " 43* IL77-4259/IL76-3845 IL83-7439 Illinios 44* TX69A330/IL76-3820 IL80-1251 " 45* CHA Hybrid Mustang/3/T-105*4/Amigo*4//Largo,				NAPB
43* IL77-4259/IL76-3845 IL83-7439 Illinios 44* TX69A330/IL76-3820 IL80-1251 " 45* CHA Hybrid Mustang/3/T-105*4/Amigo*4//Largo,				H
44* TX69A330/IL76-3820 IL80-1251 " 45* CHA Hybrid Mustang/3/T-105*4/Amigo*4//Largo,				
45* CHA Hybrid Mustang/3/T-105*4/Amigo*4//Largo,				
			IL80-1251	и
TXGH10287 TX87HA1 Texas	45*			
		TXGH10287	TX87HA1	Texas

^{*} New Entry in 1988, ** New Seed Provided, *** Entered from NRPN

TEST SITE INFORMATION - SRPN

Clovis, NM -- The dryland nursery was planted on 9/22/87 at a rate of 35 lbs/a. Fertilizer was applied preplant incorporated at a rate of 21 lbs/a nitrogen and 43 lbs/a phosphate.

The irrigated nursery was planted on 10/6/87 at a rate of 70 lbs/a. Fertilizer was applied preplant incorporated at a rate of 129 lbs/a

nitrogen and 43 lbs/a phosphate.

Precipitation for August and September was above normal with 9.95 inches occurring in August. The following six months received below normal precipitation totaling only 2.03 inches. Harvest was delayed due to heavy rains in May and June (17.46 inches).

An infestation of Russian wheat aphid reached economic threshold levels by April 11, 1988. An application of 0.5 lbs/a a.i. Dimethoate was used to control the aphid. Leaf rust did not appear until hard dough stage and occurred at higher levels on the irrigated nursery. It did not, however, seem to affect yields. No other diseases were detected during the growing season.

Farmington, NM -- The nursery was sprayed two times in fall and spring for Russian wheat aphid control.

Bushland, TX -- The irrigated nursery was fertilized on 9/28/87 with 155 lbs/a N ammonium sulfate and sown on 10/20/87 at 65 lbs/a or 73 kg/ha. It was irrigated with 3.5 acre inches on 4/12/88, 5/2/88, and 5/18/88 followed by 2.39 inches of rainfall on 5/31/88. The low test weight of entries was not well explained. Failure to control Russian aphids late in the fruiting period may have been a contributing factor. Yellowing of some entries at heading suggested barley yellow dwarf infection but wheat streak or other viruses could be involved. Symptoms were not definitive.

The dryland nursery was sown on 10/6/88 at 32 lbs/a or 36 kg/ha. The nursery was ground sprayed with 1/3 oz/a Glean on 3/21/88 to control weeds. It was not fertilized. September rainfall was more than twice normal and December precipitation in the form of snow was almost three times normal. January through March was slightly below normal precipitation while April and May was 2.25 inches above normal.

Both nurseries were airplane sprayed with 1/2 lb/a Dimethoate for

Russian aphid and greenbug control on 3/19/88 and 4/12/88.

Chillicothe, TX -- No information.

<u>Dallas, TX</u> -- A total of 100/46/0 lbs/a fertilizer (N/P/K) was applied. Emergence was delayed about 10 days due to dry conditions. There was good moisture from January through March with essentially no rains during April or May. Conditions were good for development with the highest yields in the Central Texas Blacklands in the past ten years and disease severities were relatively low.

Stillwater, OK -- There were near adequate soil moisture levels and mild temperatures throughout most of the season and no significant freeze damage. A uniform infection of barley yellow dwarf virus probably caused yield reductions in susceptible cultivars.

<u>Lahoma</u>, <u>OK</u> -- Temperatures were mild and soil moisture was adequate through most of the season. There was no significant disease or insect damage and no freeze damage.

Altus, OK -- Temperatures were mild and soil moisture better than average through most of the season for this location. A heavy leaf rust infection was present on susceptible cultivars. There was no significant freeze damage.

 $\frac{\text{Goodwell, OK}}{\text{Oologo}}$ — The nursery was pre-irrigated on 9/23/87 and irrigated on 3/23/88 and 5/10/88. Temperatures were mild throughout most of the season. There was no significant disease or insect damage and no freeze damage.

Hutchinson, KS -- The nursery was completely wiped out by wheat streak mosaic virus. Performance is an indication of tolerance to this disease.

Manhattan, KS -- Relatively good conditions and timely rains provided better than expected yields. A late, heavy infection of leaf rust influenced filling and reduced yields of susceptible cultivars.

Hays, KS -- Soil conditions in the fall were dry, however within three days of planting the nursery received 0.35 inches of rain which allowed for fairly uniform stands. Fall and winter growth was very limited. Winter survival was good. The nursery received 1.35 inches of rain on April 1, but no additional effective rainfall was received. Flowering dates were about average for the area but hot, dry conditions resulted in an early harvest date. Diseases and insects were not a factor in this test.

<u>Garden City, KS</u> -- The growing season ranged from normal to dry conditions. There was no disease pressure other than wheat streak mosaic virus and a late minor infection of leaf rust. Wheat streak mosaic virus adversely affected yields.

<u>Colby, KS</u> -- The nursery was abandoned due to poor stands. Planting conditions were very dry.

Ft. Collins, CO -- Nursery abandoned due to poor stand establishment.

Akron, CO -- No information.

Burlington, CO -- No information.

Walsh, CO -- Nursery abandoned due to hail damage.

Julesburg, CO -- No information.

Lincoln, NE -- The nursery was planted at a near optimal date with adequate fall and spring moisture. Winterkilling was a minor problem. Despite a generally dry and hot early summer, timely rains prevented drought stress. Leaf rust was prevalent.

<u>Clay Center, NE</u> -- The nursery was planted at a near optimal date with adequate fall and spring moisture. Winterkilling was a minor problem. Severe drought and heat during grain filling limited yields.

North Platte, NE -- The nursery was planted at a near optimal date with below adequate fall moisture. Winterkilling was a minor problem. Stands were very irregular with plot border rows failing to emerge as well as the center rows. Early spring moisture was ideal for the spread of Cephalosporium stripe which differentially affected the cultivars. Grain filling was abruptly ended by heat and wind with some lines dying green. Data are not reported due to variability in emergence.

Sidney, NE -- The nursery was abandoned due to hail.

Alliance, NE -- The nursery was planted at a near optimal date with adequate fall and spring moisture. Winterkilling was a minor problem. Adequate moisture was present during grain filling. A fertility gradient was present in the field which increased plot variability.

Brookings, SD -- The nursery was seeded on 9/11/87 into good moisture. Flax was planted as a snow-catch crop. A mild winter with adequate snow cover allowed 100% survival. An early, hot, dry spring and summer reduced yield potential. No disease or insect problems. Harvested on 7/5/88.

Presho, SD -- Seeded on 9/8/87 into fallowed ground with adequate moisture. A mild winter allowed for 100% survival. There were heavy fall infestations of wheat curl mite and R. Padi. The spring and summer were extremely hot and dry. WSMV and BYDV were very evident. Notes were taken on general plant appearance. Harvested on 7/6/88.

Casselton, ND -- The nursery was planted on 9/9/87. Less than 50% winter survival was recorded for most plots. Dry conditions were experienced from planting through harvest with less than 40% of normal precipitation received from April through July.

Columbia, MO -- No information.

Ames, IA -- The nursery was planted on 9/23/87 and emerged on 9/30/87. Fall moisture and growth was adequate. There was heavy winterkill on non-hardy cultivars. A dry spring and high temperatures in the early summer shortened plant growth. Plants ripened about 10 days ahead of normal with very little disease evident. Grain was bright, clean, and reasonably plump. Yields were fairly good despite low moisture and rapid growth.

<u>Urbana, IL</u> -- Soil moisture was good at planting and fall stands were excellent. Winter temperatures were fairly mild with snow cover during part of the winter. Most plots had excellent stands in the spring. Rainfall from January through harvest was below normal. Conditions became progressively drier throughout the season and diseases did not develop.

<u>Lind</u>, <u>WA</u> -- The fall was very dry with poor moisture conditions and poor emergence. The winter was mild with little moisture. Spring conditions were cool and moist with above normal precipitation in March, April and May.

Aberdeen, ID -- A total of 200 lb/a N and 40 lbs/a P were applied to the nursery. There were low levels of rainfall and snowfall for the crop season and hot summer temperatures. A total of 190 mm irrigation was applied. A slight leaf rust infection occurred late in the season. Planted on 9/25/87 and harvested 8/19/88.

Table 1. Yield and agronomic data for 45 entries in the Southern Regional Performance Nursery in 1988.

CLOVIS (IRR.)

NEW MEXICO

THREE REPLICATIONS

0.1.00	: :	YIELD	:	VOLUME	:	PLANT	:	DAYS TO		
C.I. OR SEL. NO.	:ENTRY: : NO. :	KG/HA	:	WEIGHT KG/HL	:	HEIGHT CM	:	HEADING FROM 1/1		:RESP:
TXGH13622	13	7176		71,5		80		134	9	
TXGH10563B	11	7081		70.3		80		130	7	
AGC-112	32	6835		68.9		82		131	4	
CI17826	3	6348		69.6		79		133	8	
OK84286	5	6326		69.1		83		134	10	
XH675	36	5940		68.5		86		135	4	
RL844677	30	5880		72		83		137	4	
OK84287	6	5858		69.1		79		133	ż	
C0830027	21	5841		70.6		86		134	10	
TXGH10989	9	5762		68.8		77		133	7	
TX84V1317	14	5739		71		78		131	4	
XW161	35	5691		67		72		130	2	
WH180001	39	5640		68.3		81		134	4	
0K84343	4	5625		68.8		75		134	í	
TX84V1336	12	5617		68.8		79		130	4	
NE84557	27	5536		71		79		137	15	
OK86215	8	5483		71.3		82		131	4	
OK86197	7	5471		67.7		82		130	4	
TX86V1110	19	5442		66.8		87		133	1	
C0830014	23	5420		71		89		135	9	
Bounty-122	38	5419		65.2		83		134	12	
NA-W84-229	40	5389		68.5		77		135	2	
TX87HA1	45	5331		70.5		79		132	15	
NA-W83-256	41	5323		68.3		79		136	4	
KS82C2338	25	5248		71.1		75		130	5	
C0830034	22	5236		70.3		80		137	5 5	
TX84V1736	16	5139		69.2		74		130	7	
NA-W81-162-W	42	5098		69.2		77		133	4	
IL80-1251	44	5095		69.3		77		137	4	
XH685	37	5042		67.2		83		134	2	
CI13996	2	4907		69.4		87		134	8	
TX81V6607-2	15	4870		71.9		72		131	1	
NE82533	26	4756		69.8		78		137	4	
NE82656	29	4722		64.9		77		137	1	
TX86V1109	18	4585		67.4		83		134	2	
TX81V6582-2	10	4506		70.4		69		130	5	
NE83407	28	4432		65.2		76		137	4	
TX86A7041	17	4407		65		72		135	1	
XW141	34	4387		66		71		136	1	
RL845472	31	4122		67.9		90		138	4	
AGC-113	33	3985		64.4		77		137	5	
KS84HW196	24	3911		70.1		76		130	ĺ	
CI1442	ī	3833		69.3		96		144	5	
082009	20	3775		69.2		82		137	13	
tL83-7439	43	3765		66.1		79		136	2	

MEAN 5244 LSD(.05) 1202 C.V. 14.0

CLOVIS (DRYL.)
NEW MEXICO

THREE REPLICATIONS

C I OD	: :	YIELD	: VOLUME	:	PLANT	: DAYS TO		
C.I. OR SEL. NO.	:ENTRY: : NO. :	KG/HA	: WEIGHT : KG/HL	:	HEIGHT CM	: HEADING : FROM 1/1	:SEV .:	RESP: 0-9:
TXGH10563B	11	3257	73.9		64	125	27	
TX87HA1	45	2970	75.7		68	129	27	
TXGH13622	13	2922	73.7		57	130	4	
CI17826	3	2666	72.1		64	127	23	
CI13996	2	2567	72.2		71	130	1	
XH675	36	2456	71.3		64	130	2	
RL845472	31	2338	73		65	129	2	
0K84287	6	2265	71.3		60	129	4	
TXGH10989	ġ	2170	70.6		60	129	9	
TX84V1336	12	2069	72.9		56	125	ĩ	
AGC-112	32	2044	72.8		58	128	22	
TX84V1317	14	2033	72.4		56	129	1	
IL80-1251	44	1994	72.4		59	130	2	
TX81V6607-2	15	1980	75.5		57	128	2 5 7	
C0830014	23	1945	73.6		64	130	7	
C082009	20	1849	73.4		63	134	7	
0K84286	5	1743	71.3		57	130	i	
TX86A7041	17	1728	66.5		59	130	ī	
TX84V1736	16	1700	71.9		54	125	4	
OK86215	8	1677	71.8		59	128	5	
0K84343	4	1629	69.9		57	130	4	
TX86V1109	18	1601	68		69	129	i	
TX81V6582-2	10	1579	72.2		57	126	ź	
NA-W83-256	41	1578	69.9		59	131	2	
TX86V1110	19	1538	66.6		67	129	$\bar{1}1$	
WH180001	39	1531	69.3		62	131	7	
C0830027	21	1521	72.2		58	129	2	
XH685	37	1483	71.1		59	130	4	
KS84HW196	24	1455	72.1		57	127	1	
NE84557	27	1414	72.6		56	131	1	
C0830034	22	1384	72.7		58	134	14	
NA-W81-162-W	42	1346	69.9		53	130	2	
RL844677	30	1342	72		59	135	1	
0K86197	7	1198	69.4		56	129	1	
Bounty-122	38	1146	67.4		55	130	7	
CI1442	1	1126	65.9		76	144	14	
NA-W84-229	40	1113	70		48	131	1	
KS82C2338	25	1110	70.7		58	129	14	
NE83407	28	974	67.5		52	135	2	
NE82656	29	973	68.2		58	134	4	
IL83-7439	43	871	67.6		58	130	1	
AGC-113	33	868	66.2		58	135	4	
NE82533	26	831	69.1		55	133	11	
XW141	34	697	61.4		53	133	1	
XW161	35	678	67.2		49	123	1	

MEAN LSD(.05) C.V.

FARMINGTON NEW MEXICO

FOUR REPLICATIONS

	: :	YIELD	: VOLUME		PLANT	: DAYS TO :
C.I. OR	:ENTRY:		: WEIGHT		HEIGHT	
SEL. NO.	: NO. :	KG/HA	<u>: КG/Н</u> І	;	СМ	: FROM 1/1:
TX86A7041	17	8006	75.8	3	90	139
XH685	37	7141	77.4		102	137
AGC-113	33	7038	75.1		100	139
NA-W84-229	40	6965	77.7		85	137
XH675	36	6950	77.7	7	99	136
RL844677	30	6833	78		105	139
C0830027	21	6789	79		99	136
C0830034	22	6745	79		103	137
TX84V1336	12	6569	77.4	1	84	133
XW141	34	6510	77.1	ì	85	137
CI17826	3	6349	76.4	4	91	135
TXGH10563B	11	6334	74.8	3	92	134
C082009	20	6334	79		101	139
TX81V6607-2	15	6305	77.1	Į.	81	135
TX84V1317	14	6217	77.7	7	83	133
IL80-1251	44	6070	76.3		91	135
Bounty-122	38	6056	75.1	l	91	135
TX81V6582-2	10	5938	79.3	3	77	132
WH180001	39	5938	75.8		93	135
NA-W83-256	41	5909	75.1		92	139
AGC-112	32	5821	75.1		89	136
NE82656	29	5806	72.9		98	137
NE82533	26	5718	78.4		100	136
TXGH13622	13	5630	74.8		89	137
XW161	35	5630	74.5		69	132
NA-W81-162-W	42	5586	76.8	3	84	135
NE84557	27	5440	77.1	<u> </u>	100	136
TX87HA1	45	5381	73.5		95	135
CI1442	1	5322	76.4		126	143
0K84287	6	5249	76.8		90	138
IL83-7439	43	5220	75.5		98	135
TX86V1109	18	5191	74.5		93	135
TX86V1110 KS82C2338	19 25	5147 5147	75.5)	90	134
0K84286	20 5	5117	79 76 4		90	133
0K86215	8	5117	76.4 74.8		92 89	138 134
0K84343	4	5088	74.2		84	134
NE83407	28	5073	72.6		86	137
TX84V1736	26 16	5059	77.1		77	137
RL845472	31	5015	77.1 76.4	1	92	133
TXGH10989	9	5000	75.1		92 81	133
C0830014	23	4795	75.1 75.1		110	136
0K86197	7	4560	73.9)	87	133
CI13996	2	4311	75.8		105	133
KS84HW196	24	3739	71.3		84	132
		0.00	7.1.4.	•	0-1	106
MEAN		F701	······································	***		

MEAN LSD(.05) C.V.

BUSHLAND (IRR.)
TEXAS

	THREE	REPLICATION	S
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C.I. OR SEL. NO.	ENTRY:	YIELD KG/HA	: VOLUME : WEIGHT : KG/HL	-	ANT IGHT CM		DAYS TO: HEADING: FROM 1/1:	LODGING	:	YELLOW INDEX 0-9	:
JEE: 1101	. 110.	NO) III	· KG/IIL	<u> </u>	OI1	<u>.</u>	111011 1711		<u>.</u>	03	<u> </u>
TX81V6607-2	15	6226	74.2	8	32		130	27		1	
TX81V6582-2	10	5984	73.5	3	35		128	30		1	
TX84V1336	12	5661	71.2	8	37		130	27		2	
TXGH105638	11	5502	68.1	8	39		129	35		1	
XW161	35	5360	70.1	8	35		127	0		3	
TX87HA1	45	5273	69.9	8	38		132	10		3	
TX84V1736	16	5183	71.1	8	33		128	37		3	
AGC-112	32	5142	66.3	8	32		130	38		1	
TX84V1317	14	5107	71.2	8	32		130	18		3	
TXGH13622	13	5102	69.6	ç	90		132	57		2	
0K84343	4	4974	72.1	8	38		133	2		2 2	
XH675	36	4922	69.6	9	32		133	13		1	
0K84286	5	4887	69.7	8	39		133	18		3	
0K86215	8	4878	70.8	8	37		131	22		3	
NA-W84-229	40	4781	69.6	{	36		133	0		3	
C0830027	21	4779	73.7	9	92		131	40		2	
TXGH10989	9	4757	70.1	{	38		130	55		3 3 2 1 3 2 2 2 3	
OK84287	6	4711	69.2		90		133	13		3	
KS82C2338	25	4694	70.7		38		131	12		3	
XH685	37	4649	68.5	8	37		133	13		2	
Bounty-122	38	4642	65	(91		133	8		2	
NA-W81-162-W	42	4487	68.7		31		133	7		3	
WH180001	39	4407	68.5	9	94		134	15		4	
IL80-1251	44	4400	68.5	8	39		135	10		4	
KS84HW196	24	4389	72	{	32		129	53		4	
XW141	34	4344	65.6	{	32		133	5		1	
0K86197	7	4341	70.7	(90		131	62		2	
RL845472	31	4297	71.6	1	36		134	23		2	
NA-W83-256	41	4220	68.3		37		175	31		2	
TX86A7041	17	4142	64.5		74						
CI17826	3	4097	65,6		88						
TX86V1109	18	4072	70.3	1	88						
TX86V1110	19	4048	69.2	!	90						
NE82656	29	4036	66.8	!	90						
NE83407	28	4014	64.1		85						
RL844677	30	4009	69.2		93						
C0830034	22	3902	67.6		92						
IL83-7439	43	3823	69		91						
NE84557	27	3249	71.2		<u>-</u>						
C0830014	23	3210	70.5		<u> </u>						
C082009	20	3152	68.9		{						
NE82533	26	3045	69.4		91		130	5		ა	
AGC-113	33	2966	61.8		89		136	30		2	
CI13996	2	2870	70.8		92		134	73		4	
CI1442	1	1734	68	1	95		142	68		3	
MEAN		4410									

BUSHLAND (DRYL.)

TEXAS

FOUR REPLICATIONS

C.I. OR	: :ENTRY:	YIELD	: VOLUME : WEIGHT	:	PLANT HEIGHT	: DAYS TO : HEADING :	YELLOW INDEX	:
SEL. NO.	: NO. :	KG/HA	: KG/HL	:	CM	: FROM 1/1:	0-9	
TX81V6607-2	15	3685	82.6		62	128	2	
TX81V6582-2	10	3373	81.1		61	127	2	
TXGH13622	13	3160	79.2		62	129	2	
TX84V1336	12	3157	79.6		62	128	3	
TXGH10563B	11	3039	78.1		65	127	2	
AGC-112	32	3014	79.1		64	127	2 2 3 2 2 4	
TX84V1317	14	2977	80.2		63	127	4	
TXGH10989	9	2861	79.1		64	128	1	
C0830034	22	2857	78.7		70	132	4	
C0830027	21	2839	80.4		75	130	ż	
CI17826	3	2835	78.7		66	129	2	
DK84286	5	2825	78.6		63	130	ī	
TX87HA1	45	2825	77.8		63	128	ż	
TX84V1736	16	2740	77.8		62	127	2	
0K84287	6	2677	78.8		63	130	1	
OK86215	8	2672	78.2		65	128	2	
XH675	36	2650	76.6		71	131	2 2 1 2 2 1 2 3 3 3 3 4 3 5 2 3 4	
XH685	37 37	2637	76.5		68	131	J 2	
RL845472	31	2570	79.9		67	131	٠ ١	
DK86197	7	2460	77.5		64	127	J 2	
RL844677	, 30	2449	78.8		68	133	2	
AGC-113	33	2435	75.7		66		4	
NE84557	27	2402	73.7 79			133	3	
NA-W83-256	41	2369	77.8		67	134	5	
KS82C2338	25	2361	7/.0		63	131	2	
TL80-1251			79.9		65	128	3	
	44	2349	77.2		64	133	4	
NA-W81-162-W	42	2329	78.1		61	130	3	
TX86V1110	19	2326	76.1		71	128	4	
KS84HW196	24	2321	79		65	127	4	
TX86A7041	17	2319	76.1		57	133	4	
OK84343	4	2260	76.8		62	130	3	
082009	20	2114	79.1		67	134	4	
TX86V1109	18	2063	76.6		60	129	4	
NE83407	28	2043	73.8		57	134	4	
VH180001	39	2031	77.2		63	131	3	
CI13996	2	1987	79		75	132	5 4	
Bounty-122	38	1972	76.8		64	132	4	
KW161	35	1950	77.4		56	127	4	
0830014	23	1949	78.6		71	131	6	
VA-W84-229	40	1927	76.9		52	· 132	5	
KW141	34	1875	76.2		51	132	5 3	
YE82533	26	1841	76.9		66	134	4	
1E82656	29	1589	75.6		64	134	4	
IL83-7439	43	1541	76.5		58	132	6	
CI1442	1	1017	72.3		66	138	5	

MEAN LSD(.05) C.V.

CHILLICOTHE

TEXAS

THREE REPLICATIONS

	: :ENTRY:	YIELD	: VOLUME	: PLANT : HEIGHT	: DAYS TO :
C.I. OR SEL. NO.	: NO. :	KG/HA	: WEIGHT : KG/HL	: HEIGHT	: HEADING : : FROM 1/1:
TX81V6607-2	15	4741	84.2	70	109
RL844677	30	4730	81.1	82	112
XW161	35	4723	82.8	70	106
C0830027	21	4656	82.5	86	111
TXGH13622	13	4580	82.8	79	110
TX87HA1	45	4557	80.8	81	109
NA-W81-162-W	42	4542	81.3	74	111
C0830014	23	4506	81.7	89	110
TXGH105638	11	4492	80.2	71	107
TX86V1110	19	4398	80.4	88	110
TX84V1317	14	4389	81.2	73	110
NE83407	28	4317	76	78	116
TX81V6582-2	10	4311	82.9	70	106
TX84V1336	12	4311	81.5	69	108
IL80-1251	44	4270	78.2	82	118
NE84557	27	4235	81.9	93	119
XW141	34	4201	80.4	76	112
NE82656	29	4176	77.9	83	116
RL845472	31	4176	80.9	88	115
TX84V1736	16	4165	80.9	67	106
TX86A7041	17	4152	76.2	74	112
TXGH10989	9	4147	79.5	78	111
C0830034	22	4140	80.4	92	115
TX86V1109	18	4131	80.6	92	110
Bounty-122	38	4122	79.8	73	109
WH180001	39	4122	79.7	83	114
NE82533	26	4120	80.4	84	117
AGC-113	33	4096	76.6	82	118
XH675	36	4084	79.7	80	111
KS82C2338	25	4075	82.8	77	106
XH685	37	4069	79.7	83	111
NA-W83-256	41	4066	77.1	74	112
AGC-112	32	4060	78.5	75	108
0K86215	8	4046	81.3	76	106
0K84343	4	4013	79.9	75	112
NA-W84-229	40	4001	79.9	71	112
0K84286	5	3974	80.5	73	110
0K84287	6	3797	80.4	76	111
CI13996	2	3762	79.1	101	116
IL83-7439	43	3757	80	80	116
CI17826	3	3717	75.5	77	112
0K86197	7	3670	80.7	78	109
C082009	20	3654	80.7	92	117
VC04UU106	24	3237	81.5	75	112
V204UM1A0					4
KS84HW196 CI1442	1	2849	77.3	96	127

MEAN LSD(.05) C.V.

TO :LEAF RUST: MILDEW : SEPTURIA: NG :SEV :RESP: : 0-9: % : 0-9 : : DALLAS, TEXAS -- THREE REPLICATIONS DAYS TO HEADING FROM 1/1 PLANT HEIGHT CM : VOLUME : WEIGHT : KG/HL MED 3461 442 ENTRY: IL80-1251 TX81V6582-2 WH180001 IL83-7439 88

STILLWATER
OKLAHOMA
THREE REPLICATIONS

	· · · · · · · · · · · · · · · · · · ·	UTPLA	. 1107 (117)	<u></u>	D. A. (1997)	6.000 =0		
C.I. OR	: : :ENTRY:	AIELD	: VOLUME : WEIGHT	:	PLANT HEIGHT	: DAYS TO : : HEADING :	BYD VIRUS	:
SEL. NO.	: NO. :	KG/HA	: KG/HL	:	CM	: HEADING : : FROM 1/1:	0-9	: :
JCE: NO:	. 110	Kayını	* Nu/TIL			* 1 NOP1 17 1.	0-3	
TX81V6607-2	15	4089	78.7		81	119	4	
0K84343	4	4083	79.5		85	124	4	
TX84V1317	14	4001	79.1		81	121	7	
0K84287	6	3976	80		89	120	3	
RL844677	30	3960	81.3		97	122	6	
TXGH10989	9	3868	76.8		87	120	4	
C0830034	22	3861	79.9		100	123	5	
0K84286	5	3843	80		86	120	5 5 3	
XW161	35	3814	79.1		78	117	3	
WH180001	39	3784	78		98	125	5	
TX84V1736	16	3780	77.4		82	118	5 6 5	
AGC-113	33	3768	77.1		84	125	5	
TX84V1336 XH685	12 37	3752 3744	74.3 77.4		86 94	118 121	Ö	
0K86215	8	3730	77.5		94 84	118	6 5 5	
XH675	36	3691	77.7		97	121	4	
TX86A7041	17	3608	77		82	125	6	
TX81V6582-2	10	3587	78.7		78	117	6	
IL80-1251	44	3574	78		81	127	6 6	
C0830027	21	3571	80.1		96	121	Ğ	
TXGH13622	13	3540	77.1		91	119	4	
0K86197	7	3510	76.1		93	119	5	
NE83407	28	3497	78.9		82	124	4	
TX87HA1	45	3427	76.5		90	120	6	
Bounty-122	38	3423	76		90	120	5	
NA-W81-162-W	42	3336	79.3		83	122	6	
KS82C2338	25	3316	78.7		88	118	6	
NE84557	27	3289	82		94	127	6	
TXGH10563B	11 29	3258	74.2		88	117	6	
NE82656 NA-W84-229	40	3251 3208	78.2 77.5		79 80	127 123	6	
KS84HW196	24	3199	77.3		00	123	7	
IL83-7439	43	3124	79.5					
C082009	20	3070	81.8					
TX86V1109	18	3058	76.9					
TX86V1110	19	3036	75.7					
NA-W83-256	41	3029	79.6					
CI17826	3	2937	74.9					
AGC-112	32	2787	75.2					
CI13996	2	2692	79.3					
RL845472	31	2651	79.3					
C0830014	23	2475	78.2					
NE82533	26	2231	78.8					
CI1442	1	1779	79.1					
XW141	34	1766	76.4					
MEAN		3355						
LSD(.05)		359						
c.v.		6.5						

LAHOMA OKLAHOMA THREE REPLICATIONS

·	: :	YIELD	: VOLUME	PLANT	: LODGING :
C.I. OR	:ENTRY:		: WEIGHT	: HEIGHT	:
SEL. NO.	: NO. :	KG/HA	: KG/HL	: CM	% _ :
					
XW161	35	5482	78	93	0
0K84343	4	5351	77.8	92	Ō
TX84V1336	12	5217	77.3	91	3
TX81V6607-2	15	5115	81	91	5
TX84V1317	14	5064	78.9	88	20
0K86215	8	4987	77.5	94	0
TX84V1736	16	4946	78.4	88	23
XH685	37	4899	75.7	105	0
NA-W84-229	40	4847	75,3	92	Ö
TX86A7041	17	4813	73.8	92	Ŏ
RL844677	30	4763	77	104	ŏ
TX81V6582~2	10	4760	78.8	85	2
0K84286	5	4743	79.5	98	õ
TX86V1110	19	4740	76.9	106	27
NA-W81-162-W	42	4729	77.7	91	õ
0K84287	6	4704	79.1	98	ŏ
KS82C2338	25	4659	79.2	95	ŏ
WH180001	39	4578	74.3	102	ŏ
C0830027	21	4526	79.5	103	Ž5
TXGH10989	9	4478	76.5	93	32
TX86V1109	18	4388	77.4	104	27
IL80-1251	44	4374	72.9	95	õ
XH675	36	4363	75.6	104	ŏ
AGC-112	32	4324	75.1	91	ŏ
NE82656	29	4318	74.4	94	ŏ
RL845472	31	4286	77.8	101	ŏ
TXGH10563B	11	4218	75.9	99	ŏ
NE83407	28	4195	75.6	98	ŏ
Bounty-122	38	4186	74	94	ŏ
TX87HA1	45	4177	76.2	103	ŏ
XW141	34	4166	72	89	ŏ
NA-W83-256	41	4143	74.3	101	2
C0830014	23	4080	78.7	117	Õ
0K86197	7	4064	76.5	103	Ĭ5
TXGH13622	13	3961	76.9	95	5
KS84HW196	24	3956	78.9	97	10
NE84557	27	3927	80.5	104	2
CI17826	3	3816	75.1	99	ō
C0830034	22	3784	77.1	106	10
IL83-7439	43	3617	78.2	115	13
C082009	20	3560	78.3	109	5
AGC-113	33	3474	71.9	95	25
CI 13996	2	3458	78.7	110	10
NE82533	26	3314	76.2	94	Ō
CI1442	1	1770	76.8	106	27
/ (#	•	.,,0	, , , ,	100	

ALTUS
OKLAHOMA
THREE REPLICATIONS

C T OD	: :	YIELD	: VOLUME	: PLANT :
C.I. OR SEL. NO.	:ENTRY: : NO. :	KG/HA	: WEIGHT : KG/HL	: HEIGHT:
JELI HOL		NG/TIFE		4 011 4
0K84343	4	4086	79.9	83
XW161	35	4049	79.3	74
WH180001	39	3564	75.1	97
XH685	37	3547	75.1	99
NA-W81-162-W	42	3536	75.9	77
TX86V1110	19	3508	75.7	91
TX84V1336	12	3501	79.3	75 01
XW141 TX86V1109	34 18	3501 3497	74 76.4	81 94
TX84V1317	14	3488	80.9	74
NE83407	28	3444	74	83
TX86A7041	17	3432	73.1	85
NE82656	29	3415	74.6	89
RL844677	30	3378	74.8	99
XH675	36	3371	75.7	97
0K84287	6	3363	80.5	83
0K84286	5	3326	80.5	82
NA-W83-256	41	3296	73.9	87
Bounty-122	38	3290	74.8	86
NA-W84-229	40	328 9	78.3	85
AGC-112	32	3277	73.8	84
TX87HA1	45	3270	75.6	86
TXGH10989	9	3266	76.9	84
TX84V1736	16	3259	79.2	79
RL845472	31	3235	78.3	94 96
IL83-7439 IL80-1251	43 44	3222 3189	77.9 76.1	90 90
TX81V6582-2	10	3160	80.2	76
TX81V6607-2	15	3158	82.8	75
0K86197	7	3143	78.4	84
TXGH10563B	11	3137	75.6	78
KS82C2338	25	3106	79.5	86
0K86215	8	3100	78.7	83
AGC-113	33	3096	73.3	90
KS84HW196	24	3081	79.2	82
NE84557	27	3020	77.1	97
TXGH13622	13	3019	78.6	80
C0830014	23	2973	78.2	99
CI17826	3	2897	75.3	84
CI13996	2	2842	77.9	105
C0830034	22	2820	76.6	96
C0830027	21	2798	79.6	93
NE82533	26	2554	77.8	91 00
C082009	20	2472	76.6	99 98
CI1442	1	1680	78.3	30
MEAN		3215		

GOODWELL

OKLAHOMA

THREE REPLICATIONS

		U++15			
C T 00	: :	YIELD	: VOLUME :	PLANT	: DAYS TO :
C.I. OR	:ENTRY:	NO THE	: WEIGHT :	HEIGHT	: HEADING :
SEL. NO.	: NO. :	KG/HA	: KG/HL :	CM	: FROM 1/1:
OK84286	5	5098	75.3	102	133
XW161	35	4805	74.6	86	132
0K86215	8	4785	74.2	97	133
0K84287	ő	4708	74.2	102	134
XW141	34	4699	70.4	89	134
0K84343	4	4664	73.9	98	135
TX81V6582-2	10	4657	76.2	89	132
TX84V1317	14	4441	73.9	91	133
TXGH105638	îi	4413	71.1	102	132
TX84V1736	16	4403	73	91	133
RL845472	31	4362	74.4	109	136
NA-W83-256	41	4354	69	99	136
TX84V1336	12	4346	72.4	99	133
XH675	36	4292	71.2	108	133
NA-W81-162-W	42	4263	72	93	135
AGC-112	32	4207	69.5	99	133
TX81V6607-2	15	4176	75.5	92	133
IL80-1251	44	4176	68.5	104	136
TX87HA1	45	4135	70.8	104	133
TX86A7041	17	4134	67.7	95	136
0K86197	7	4122	73.8	104	133
NE82656	29	4113	69.8	107	137
XH685	37	4092	72	109	133
KS82C2338	25	4091	74.8	100	133
TXGH10989	9	4020	71	97	134
WH180001	39	4013	68.8	107	135
NE83407	28	3953	67.9	101	137
TX86V1110	19	3952	71.1	99	133
NA-W84-229	40	3922	69.9	101	135
RL844677	30	3913	72.1	110	136
NE84557	27	3887	74.7	106	138
TX86V1109	18	3873	73	101	133
Bounty-122	38	3864	68	103	135
AGC-113	33	3808	66.6	106	137
KS84HW196	24	3802	75.6	100	133
C0830027	21	3790	73.1	108	133
IL83-7439	43	3697	73.8	107	135
TXGH13622	13	3684	72.4	99	133
NE82533	26	3593	72.1	107	138
CI13996	2	3575	75.6	104	136
C0830014	23	3553	73.8	114	135
C082009	20	3504	72.8	104	137
CI17826	3	3436	69.3	102	133
C0830034	22	3392	70.6	107	137
CI1442	1	2592	71.7	115	140

HUTCHINSON

KANSAS

THREE REPLICATIONS

	: :	YIELD	: VOLUME	: PLANT	: DAYS TO :
C.I. OR	ENTRY:	112	WEIGHT	: HEIGHT	: HEADING :
SEL. NO.	: NO.:	KG/HA	: KG/HL	: CM	: FROM 1/1:
TX81V6582-2	10	2979	66.7	74	137
XW161	35	2511	63.3	7 5	135
TX81V6607~2	15	2499	68.2	75	136
AGC-112	32	2273	61.9	80	136
TX87HA1	45	2247	61.8	84	136
OK86215	8	2130	63.1	78	133
TXGH10563B	<u>1</u> 1	2106	60	80	135
OK86197	7	2082	63.6	75 75	133
KS82C2338	25	2011	67.1	75 76	135
TXGH10989 TXGH13622	9 13	2003 1945	59.7 62.8	76 78	135 136
TX86V1109	18	1929	61.3	81	135
TX84V1736	16	1820	60.4	70	135
XH675	36	1804	59	7 9	137
OK84343	4	1802	62.7	77	131
OK84286	5	1727	59.1	75	132
NE82656	29	1678	58.6	74	135
RL844677	30	1647	59.5	79	135
TX86V1110	19	1642	58.4	78	134
TX84V1336	12	1607	62.2	75 70	133
XW141 KS84HW196	34 24	1580 1578	53.5 63.3	72	135
IL80~1251	44	1559	53.9	72 75	137 135
C0830027	21	1545	61.9	82	135
TX84V1317	14	1508	60.2	77	137
XH685	37	1496	57.4	75	137
OK84287	6	1481	60.2	68	133
RL845472	31	1341	61.7	73	136
NA-W81-162-W	42	1331	58.3	69	135
NA-W83-256	41	1300	58.3	68	134
Bounty-122 C082009	38 20	1232 1208	53.3 59.1	71	135
WH180001	39	1186	57.9		
NA-W84-229	40	1186	57.5		
C0830014	23	1117	6		
NE84557	27	1058	۴		
C0830034	22	1039	!		
NE83407	28	935	4		
IL83-7439	43	925	1		
CI13996	2	894	1		
AGC-113	33 3	820			
CI17826 NE82533	3 26	819 704	1		
TX86A7041	17	604	1		
CI1442	ĩ	510	1		
MEAN		1542			
LSD(.05)		445			
c.v.		17.7			

MANHATTAN KANSAS

THREE REPLICATIONS

	: :	YIELD	: VOLUME :				RUST:
C.I. OR	:ENTRY:		: WEIGHT :		: HEADING	:SEV.:	
SEL. NO.	: NO. :	KG/HA	: KG/HL :	CM	: FROM 1/1	: % :	<u>0-9:</u>
							_
TXGH13622	13	4675	81.8	80	131	70	8
RL844677	30	4651	82.2	87	133	15	3
XH685	37	4637	78.9	82	131	50	8
TX84V1317	14	4601	80.6	73	131	20	8
XW161	35	4505	81	67	129	10	3
0K86215	8	4391	80.9	74	130	50	8
NA-W83-256	41	4382	79.5	79	131	70	8
NA-W81-162-W	42	4338	82	71	132	30	8 3 8
XW141	34	4311	78.8	72	133	20	3
TX87HA1	45	4246	80.7	91	130	15	8
TX84V1336	12	4236	80.2	76	131	30	7
NE82656	29	4223	78.4	75	135	15	3
AGC-113	33	4215	77.7	74	134	70	8
XH675	36	4202	79.6	81	132	50	8
IL80-1251	44	4155	80.6	74	134	30	8
TX81V6607-2	15	4123	83.5	69	131	15	7
TXGH105638	11	4104	78.8	78	130	60	8
TX81V6582-2	10	4043	81.7	71	130	50	8
WH180001	39	4002	79.4	79	133	30	3
TX86A7041	17	3991	78.1	68	132	10	8 3 3 8
TX84V1736	16	3990	81.3	70	129	40	8
NA-W84-229	40	3958	80	73	132	30	7
AGC-112	32	3936	79	79	130	70	8
RL845472	31	3912	80.8	81	132	20	8
NE83407	28	3903	77.3	72	133	80	8
0K86197	7	3890	80.9	78	131	60	8
NE84557	2 7	3884	81.7	87	134	25	8
0K84343	4	3866	79.7	70	133	30	7
C0830014	23	3852	79.5	67	131	70	8
KS84HW196	24	3844	80.8	76	131	70	8
NE82533	26	3840	80.8	80	134	70	8
TXGH10989	9	3822	78.7	63	133	70	8
TX86V1109	18	3807	79.1	87	132	10	3
TX86V1110	<u>19</u>	3777	78	84	131	10	3 3
CI17826	3	3762	77.9	77	132	80	8
C0830034	22	3704	80.6	78	135	80	8
KS82C2338	25	3692	81.4	79	130	80	8
IL83-7439	43	3656	80.4	85	133	15	8
C0830027	21	3526	81.9	77	132	30	3
0K84286	5	3451	81.3	67	132	60	8
CI13996	2	3389	80.9	90	133	70	8
C082009	20	3144	80.6	76	135	40	8
0K84287	6	3112	80.3	68	132	6Ŏ	8
Bounty-122	38	3006	77	73	132	80	8
CI1442	ĩ	2792	77.8	83	139	70	8

MEAN LSD(.05) C.V.

HAYS
KANSAS
THREE REPLICATIONS

C.I. OR	: :: :ENTRY:	YIELD	: VOLUME : : WEIGHT :	PLANT HEIGHT	: DAYS TO : : HEADING :
SEL. NO.	: NO. :	KG/HA	: KG/HL :	CM	: FROM 1/1:
TUOU 1 2 COO	10	0710	70.5		124
TXGH13622	13 10	2712	79.5	61	134
TX81V6582-2 TXGH10563B	10	2641 2609	82.1 78.5	55 57	1 3 2 1 3 3
TX81V6607~2	15	2569	81.6	53	135
TXGH10989	9	2551	79.5	60	134
0K84343	4	2547	78.2	59	135
C0830034	22	2517	79.3	64	138
RL844677	30	2421	80.9	62	136
XW161	35	2419	79.1	53	131
KS84HW196	24	2401	81	61	132
TX87HA1	45	2383	79	58	132
TX84V1336	12	2349	79.6	54	135
C0830014	23	2340	78	63	135
NE83407	28	2336	76.2	59	137
C0830027	21	2327	81.4	58	136
NA-W83-256	41	2291	76.6	58	135
XH685	37	2287	78	61	135
AGC-112	32	2284	77.7	56	133
TX86V1109	18	2266	76.9	64	136
TX84V1317	14	2257	80.7	55	135
CI17826	3	2235	78	54	134
NA-W84-229	40	2233	77.3	54	136
IL80-1251	44	2233	78.9	59	136
0K84286	5	2215	79.1 79.2	54 56	135
RL845472 0K86215	31	2215 2201	79.2 79.2	56 57	136 133
Bounty-122	8 38	2201	76.2	57 57	133
KS82C2338	25	2186	81.4	59	132
XH675	36	2174	77.8	59	135
WH180001	39	2154	77.5	62	137
0K84287	6	2132	78.9	52	136
NE82533	26	2121	76.4	57	139
NA-W81-162-W	42	2118	77.8	50	135
IL83-7439	43	2107	77.5	59	135
AGC-113	33	2083	77.4	55	139
TX86V1110	19	2076	74.8	62	135
TX84V1736	16	2067	80.2	49	134
CI13996	2	2047	78	66	136
NE82656	29	2042	76.2	56	138
				59	
XW141	34				
	7	2009			
C11442	1	139/	74.2	/1	142
NE84557	27 34 7 17 20 46 1	2038 2022 2009 1993 1883 1775 1397	70.2 77.7 72.8 79.7 75 76.4 78.1 74.2		138 139 132 138 138 135 142

GARDEN CITY

KANSAS

THREE REPLICATIONS

	: :	YIELD	: VOLUME :	PLANT	: DAYS TO :
C.I. OR	:ENTRY:		: WEIGHT :	HEIGHT	: HEADING :
SEL. NO.	: NO. :	KG/HA	: KG/HL :	CM	: FROM 1/1:
TXGH13622	13	3244	78.9	62	137
XH675	36	3219	76.2	62	137
AGC-112	32	3199	77	60	137
TXGH10563B	11	3167	76.1	58	136
TX81V6607-2	15	3158	81.2	57	138
TX87HA1	45	3042	77.7	63	137
TXGH10989	9	2982	77.5	60	138
KS82C2338	25	2977	78.1	60	138
TX84V1317	14	2874	78.4	58	137
C0830034	22	2860	77.8	58	140
C0830027	21	2840	78.6	65	137
OK84286	5	2831	77.6	62	137
C082009	20	2825	78.4	60	141
TX86V1109	18	2820	75.9	65	138
TX81V6582-2	10	2813	80.2	58	137
NA-W83-256	41	2802	75.6	60	137
RL844677	30	2795	75.6 77	60	139
	33		77.9		
AGC-113		2766		55	140
XH685	37	2739	76.5	58	138
NE82533	26	2733	75.9	60	139
0K84287	6	2706	78.2	60	137
0K86215	8	2684	77.6	62	137
RL845472	31	2677	77.9	58	138
0K86197	7	2659	77.2	60	137
TX86V1110	19	2641	74.9	62	138
NE82656	29	2639	74.3	57	139
CI17826	3	2621	76.6	57	137
TX84V1736	16	2596	76.6	57	136
NE83407	28	2556	73.4	55	140
CI13996	2	2554	78.2	68	138
IL80-1251	44	2533	77	57	139
KS84HW196	24	2529	77.9	62	137
XW141	34	2498	75	53	138
C0830014	23	2477	78.6	68	137
NE84557	27	2455	77.1	60	140
IL83-7439	43	2453	75.4	52	141
XW161	35	2399	75.7	53	137
NA-W81-162-W	42	2397	77.2	53	140
Bounty-122	38	2392	75.1	60	138
OK84343	4	2385	76.7	57	140
NA-W84-229	40	2368	75.9	53	140
TX84V1336	12	2345	75.9 77.4	55	137
WH180001	39	2280	76.1	62	138
TX86A7041	39 17	2260	71.8	55	139
CI1442	1/	1924	71.8 75	70	139 144
01144C	T	1354	/ 3	/ U	144

AKRON COLORADO THREE REPLICATIONS

	: :	YIELD	: VOLUME :	-
C.I. OR	:ENTRY:		: WEIGHT :	
SEL. NO.	: NO. :	KG/HA	: KG/HL :	
				•
TXGH13622	13	1835	65.3	
AGC-112	32	1822	69.6	
OK84343	4	1782	70.3	
NE82656	29	1750	66.5	
TXGH10563B	11	1699	64.4	
TXGH10989	9	1649	66.2	
RL845472	31	1643	67.8	
CI17826	3_	1582	63.1	
NE84557	27	1568	72.7	
TX87HA1	45	1547	65.3	
RL844677	30	1534	65	
TX81V6607-2	15	1508	68.4	
AGC-113	33	1493	63.7	
NE82533	26	1458	65.9	
TX84V1736	16	1447	64.7	
IL83-7439	43	1434	71.2	
TX84V1336	12	1423	63.4	
OK84286	5	1416	68.1	
KS84HW196	24	1407	69.9	
KS82C2338	25	1400	65.6	
NE83407	28	1393	59.1	
XH675	36	1378	64.7	
TX84V1317	14	1325	67.8	
OK86215	8_	1315	66.2	
XW161	35	12 6 6	63.1	
Bounty-122	38	1233	60	
WH180001	39	1228	64.1	
NA-W81-162-W	42	1221	63.4	
OK86197	7	1217	68.4	
C0830027	21	1205	69.9	
CI13996	2	1203	69.3	
NA-W83-256	41	1198	64.4	
TX81V6582-2	10	1194	65.6	
OK84287	6	1193	69	
IL80-1251	44	1192	65.6	
C082009	20	1179	68.4	
XW141	34	1141	58.2	
C0830034	22	1124	65.6	
NA-W84-229	40	1122	69.3	
XH685	37	1113	59.1	
TX86A7041	17	1085	59.1	
TX86V1110	19	1044	66.5	
TX86V1109	18	987		
CI1442	1	832	71.5	
C0830014	23	791	69.3	
MEAN		1346	·	
LSD(.05)		459		
c.v.		20.9		

BURLINGTON COLORADO

THREE REPLICATIONS

C.I. OR	: : :ENTRY:	YIELD	: VOLUME : WEIGHT	: PLANT : HEIGHT :
SEL. NO.	: NO. :	KG/HA	: KG/HL	: CM :
		(Capital)		
AGC-112	32	3175	71.2	84
TX84V1336	12	3122	72.4	79
KS84HW196	24	3025	74.3	81
RL845472	31	2968	76.1	89
KS82C2338	25	2964	73.3	79
0K86215	8	2932	71.5	79
0K84343	4	2873	72.4	79
TX87HA1	45	2851	72.4	89
0K84287	6	2841	72.4	84
NE 826 56	29	2820	68.1	91
XH685	37	2819	71.8	94
TXGH10563B	11	2817	70.3	84
C0830027	21	2786	74	91
TX81V6582-2	10	2784	73	79
0K84286	5	2764	74	84
RL844677	30	2748	71.2	99
TXGH13622	13	2715	71.5	86
IL80-1251	44	2698	72.4	84
TX84V1317	14	2693	73.7	76
NE82533	26	2686	70.9	91
TX81V6607-2	15	2669	75.2	79
NA-W84-229	40	2649	74.9	81
XW161	35	2647	70.6	69
TX86V1110	19	2635	70.6	91
CI13996	2	2630	74.3	112
TXGH10989	9	2629	69.9	84
WH180001	39	2621	72.4	84 84
0K86197	7	2619	71.8	81
TX86V1109	18	2577	70.9	
NE84557	27	2550	70.9	91 90
NA-W83-256	41	2526	71.5	99
AGC-113	33	2488		84
NE83407	28	2451	68.1 68.7	94
IL83-7439	43	2427	72.7	81
CI17826	3	2396	/4./	89
C0830014	23	2378	69.6	81
TX86A7041	17	2370	72.7	107
NA-W81-162-W	42	2363	69.9	74
XH675	36		73	69
C082009	20	2309 2230	69.6	94
C0830034	20 22	-	71.8	107
CI1442	1	2001	69	94
Bounty-122	38	1888	67.5	117
XW141	36 34	1873	68.1	84
TX84V1736	34 16	1821	67.5	76
1004111/00	10	1696	73	76

MEAN LSD(.05) C.V.

JULESBURG
COLORADO
THREE REPLICATIONS

C 1 OD	:	YIELD	: VOLUME	: PLANT :
C.I. OR	:ENTRY:	VO ALA	: WEIGHT	: HEIGHT :
SEL. NO.	: NO. :	KG/HA	: KG/HL	: CM :
RL845472	31	2254	69 .6	81
KS82C2338	25	2088	68.1	79
NE82656	29	2078	64.7	84
TX87HA1	45	2016	68.1	89
NE84557	27	2006	66.5	99
WH180001	39	1980	65.9	99
AGC-112	32	1921	67.5	81
CI13996	2	1866	67.8	94
NE82533	26	1733	63.1	91
IL80-1251	44	1732	66.2	89
CI17826	3	1679	63.1	76
0K86197	7	1649	65.3	76
NE83407	28	1577	61.6	84
TXGH13622	13	1567	61	79
RL844677	30	1550	67.8	97
TXGH10563B	11	1538	63.7	84
C0830034	22	1521	62.2	91
NA-W81-162-W	42	1491	66.8	74
	37	1485	62.5	89
XH685 NA-W83-256	41	1485	64.7	91
0K86215	8	1473	62.5	74
	4	1449	65.3	79 79
0K84343	36	1434	65.6	84
XH675 C0830014	23	1408	60	81
XW161	35	1337	61.9	69
TX81V6607-2	15	1320	68.1	71
	43	1290	66.2	102
IL83-7439	43 18	1280	63.1	97
TX86V1109		1273	68.7	89
C082009	20		66.7	61
TX81V6582-2	10	1260	66.2	91
TX86V1110	19	1253	64.7 66.2	91 74
KS84HW196	24	1234		89
AGC-113	33	1210	59.4 58.8	
Bounty-122	38	1198		84
NA-W84-229	40	1196	67.2	74 50
TX84V1736	16	1139	65.9	58
0K84286	5	1081	64.4	76
TX84V1317	14	1057	65	74
TX84V1336	12	1043	64.4	69
0K84287	6	1042	62.8	71
XW141	34	990	59,4	71
TXGH10989	9	980	61	64
C0830027	21	960	65.3	71
TX86A7041	17	936	55.4	71
CI1442	1	784	67.5	102

LINCOLN
NEBRASKA
THREE REPLICATIONS

C.I. OR :ENTRY: : YIELD : VOLUME : PLANT : DAYS TO : LEAF RUST: SEL. NO. : NO. : KG/HA : KG/HL : HEIGHT : HEADING : SEV.: RESP: SEL. NO. : NO. : KG/HA : KG/HL : CH : FROM 1/1: % : 0-9: NO. : NO. : KG/HA : KG/HL : CH : FROM 1/1: % : 0-9: NO. : NO. : KG/HA : KG/HL : CH : FROM 1/1: % : 0-9: NO. : NO. : KG/HA : KG/HL : CH : FROM 1/1: % : 0-9: NO. : NO. : NO. : KG/HA : KG/HL : CH : FROM 1/1: % : 0-9: NO. : NO.	····		VICIN	_	VALUE		DIANT	_	DAVC TO	. LEAD DUCT
SEL. NO. : NO. : KG/HA : KG/HL : CM : FROM 1/1: % : 0-9: AGC-112 32 4779 78.4 78 137 8 TXGH13622 13 4721 83.7 75 136 8 RL844677 30 4636 83.3 83 138 2 XW161 35 4600 82.9 67 137 2 TXB7HA1 45 4562 81.8 79 138 8 AGC-113 33 4472 81 79 138 8 AGC-113 33 4472 81 79 138 8 AGC-113 33 4472 81 79 139 8 TX84V1317 14 4470 82.3 70 139 7 CKB6215 8 4434 80.8 79 137 2 CC830034 22 4414 81.4 86 137 2	r i Op	: :	YIELD	:	VOLUME	:	PLANT	:		
AGC-112 32 4779 78.4 78 137 8 TXGH13622 13 4721 83.7 75 136 8 RL844677 30 4636 83.3 83 138 2 XW161 35 4600 82.9 67 137 2 TXGH10563B 11 4589 79.7 75 136 8 TXB7HA1 45 4562 81.8 79 138 8 AGC-113 33 4472 81 79 139 8 TX84V1317 14 4470 82.3 70 139 7 CK86215 8 4434 80.8 79 137 2 CC830034 22 4414 81.4 85 138 8 CC830034 22 4414 81.4 85 138 8 TX86V1109 18 4389 81.4 86 137 2 NA-W81-162-W 42 4380 82.7 70 137 8 TL80-1251 44 4369 81.9 77 139 7 TX8146557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 TX81V6582-2 10 4351 82.9 66 136 8 TX81V6582-2 10 4351 82.9 66 136 8 TX81V6587 7 4232 81.4 75 137 8 TL83-7439 43 4320 80.9 85 137 7 CI17826 3 4295 79.2 77 137 8 CK86197 7 4232 81.4 75 137 8 CK86197 7 138 85 CK86286 5 3905 80.9 72 137 2 CK863007 28 4006 79.1 73 139 8 CK84286 5 3905 80.9 72 137 2 CK84287 6 3824 80.9 70 137 2 CK84287 6 3824 80.9 70 137 2 CK84287 6 3824 80.9 70 137 5 CK8622338 25 3672 82.6 73 137 5 CK8641110 19 3708 80.4 87 136 8 CK8222338 25 3672 82.6 73 137 5 CK8641110 19 3708 80.4 87 136 8 CK8222338 25 3679 80.9 81 137 75 138 8 CK8222338 25 3679 80.9 81 137 75 138 8 CK8222338 25 3679 80.9 81 137 75 138 8 CK822033 26 3490 81.7 80 139 8 CK8220309 20 3217 82.4 83 140 77 80 139 80 139 80 139 80 130 139 80 130 130 130 130 130 130 130 130 130 1		· NO	KG/HV	•				:	FDOM 1/1	
TKGH13622		. 110	NOTHA	•	NUTTIL		- CM	•	TRUM 1/1	. 6 . 0-3
TKGH13622	AGC-112	32	4779		78.4		78		137	8
RLB44677 30 4636 83.3 83 138 2 XW161 35 4600 82.9 67 137 2 TXGH10563B 11 4589 79.7 75 136 8 TX87HA1 45 4562 81.8 79 138 8 AGC-113 33 4472 81 79 139 8 TX84W1317 14 4470 82.3 70 139 7 0K86215 8 4434 80.8 79 137 2 C0830034 22 4414 81.4 85 138 8 TX86W1109 18 4389 81.4 86 137 2 NA-W81-162-W 42 4380 82.7 70 137 8 IL80-1251 44 4369 81.9 77 139 7 NE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 70 TX81V6607-2 15 4178 84.2 69 138 5 XH6675 36 4154 80.5 86 138 5 XH685 72 41 4198 84.2 69 138 5 XH6675 36 4154 80.5 86 138 8 XH6854724 117 4228 79.3 75 138 2 XH6675 36 4154 80.5 86 138 8 XH6845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 7 XX84V1336 12 4060 82.8 71 137 2 XK84V1336 12 4060 82.8 71 138 3 XH834343 4 3849 79.2 68 139 5 XH84286 5 3905 80.9 72 137 2 XK84W336 5 3905 80.9 72 137 2 XK84W336 5 3905 80.9 72 137 2 XK84W336 6 29 3838 87 7 XX84W336 6 29 3838 87 7 XX84W336 6 29 3838 87 7 XX84W336 7 28 4006 79.1 73 139 8 XK84287 6 3824 80.9 70 137 2 XK84W336 7 69 138 87 XX84W336 9 3806 81.7 69 138 87 XX84W336 9 3806 81.7 69 138 87 XX84W336 2 3719 82 91 138 87 XX86W110 19 3708 80.4 87 136 2 XH36W110 19 3708 80.4 87 136 2 XK842B7 6 3824 80.9 70 137 2 XX86W110 19 3708 80.4 87 136 2 XH36W110 19 3708 80.4 87 136 2 XH38W110 19 3708 80.4 87 137 138 80 137 137 80 138 80 137 137 80 138 80 137 137 80 138 80 137 137 80 138 80 137 137 80 138 80 137 137 80 138 80 137 137 80 138 80 137 137 80 138 80 137 137 80 138 80 137 1										Ř
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 DK86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK	RL844677	30					83			
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 0K86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK		35	4600							2
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 0K86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK	TXGH10563B	11								8
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 0K86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK		45	4562				79		138	8
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 0K86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK	AGC-113	33	4472				79			8
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 0K86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK	TX84V1317	14	4470		82.3		70		139	7
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 DK86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK	0K86215		4434		80.8		79		137	2
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 DK86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK			4414				85		138	8
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 0K86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK			4389				86		137	2
RE84557 27 4360 82.4 82 139 8 TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 DK86197 7 4232 81.4 75 137 8 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83426 5 390.5 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK					82.7		70		137	8
TX81V6582-2 10 4351 82.9 66 136 8 XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 0K86197 7 4232 81.4 75 137 8 TX86A7041 17 4228 79.3 75 138 2 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 7 CX84V1336 12 4060 82.8 71 138 3 NE83407 28 4006 79.1 73 139 8 0K84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 0K84343 4 3849 79.2 68 139 5 NA-W84-229 40 3880 80.2 74 137 2 0K84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 CK84287 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 CTXGH10989 9 3806 81.7 69 138 8 CK84487 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 CK84487 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 CTXGH10989 9 3806 81.7 69 138 8 CK8448110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 KS82C2338 25 3672 82.6 73 137 5 KS84HW196 24 3665 81.5 73 137 8 CO830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 CO82009 20 3217 82.4 83 140 7 BOUNTY-122 38 3212 77.9 75 138 8							77		139	7
XH685682-2							82		139	8
XH685 37 4329 80.6 86 138 8 IL83-7439 43 4320 80.9 85 137 7 C117826 3 4295 79.2 77 137 8 0K86197 7 4232 81.4 75 137 8 TX86A7041 17 4228 79.3 75 138 2 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83407 28 4006 79.1 73 139 8 0K84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 0K842							66		136	8
Tit										8
CIT/826 3 4295 79.2 77 137 8 OK86197 7 4232 81.4 75 137 8 TX86A7041 17 4228 79.3 75 138 2 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 CO830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83407 28 4006 79.1 73 139 8 OK84286 5 3905 80.9 72 137 2 OK84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 OK84287 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 CI 13996 2 3719 82 91 138 8 CI 1399 3679 80.9 81 137 36 CO82009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8							85			7
UK86197 7 4232 81.4 75 137 8 TX86A7041 17 4228 79.3 75 138 2 TX81V6607-2 15 4178 84.2 69 138 5 XH675 36 4154 80.5 86 138 8 RL845472 31 4152 80.4 84 138 7 C0830027 21 4109 84.4 81 138 5 TX84V1336 12 4060 82.8 71 138 3 NE83407 28 4006 79.1 73 139 8 0K84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 0K84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 OK84										8
NESSAOV 28 4006 79.1 73 139 8 OK84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 OK84287 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 C113996 2 3719 82 91 138 8 TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 XS82C2338 25 3672 82.6 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533<		•								8
NESSAOV 28 4006 79.1 73 139 8 OK84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 OK84287 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 C113996 2 3719 82 91 138 8 TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 XS82C2338 25 3672 82.6 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533<										2
NESSAOV 28 4006 79.1 73 139 8 OK84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 OK84287 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 C113996 2 3719 82 91 138 8 TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 XS82C2338 25 3672 82.6 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533<									138	5
NESSAOV 28 4006 79.1 73 139 8 OK84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 OK84287 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 C113996 2 3719 82 91 138 8 TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 XS82C2338 25 3672 82.6 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533<										8
NESSAOV 28 4006 79.1 73 139 8 OK84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 OK84287 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 C113996 2 3719 82 91 138 8 TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 XS82C2338 25 3672 82.6 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533<										7
NESSAOV 28 4006 79.1 73 139 8 OK84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 OK84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 OK84287 6 3824 80.9 70 137 2 TXGH10989 9 3806 81.7 69 138 8 C113996 2 3719 82 91 138 8 TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 XS82C2338 25 3672 82.6 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533<										5
0K84286 5 3905 80.9 72 137 2 NA-W84-229 40 3880 80.2 74 137 2 0K84343 4 3849 79.2 68 139 5 NA-W83-256 41 3838 80 75 138 7 NE82656 29 3835 77.7 80 139 2 0K84287 6 3824 80.9 70 137 2 TKGH10989 9 3806 81.7 69 138 8 CI13996 2 3719 82 91 138 8 TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 KS82C2338 25 3672 82.6 73 137 5 KS84HW196 24 3665 81.5 73 137 8 C										3
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TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 KS82C2338 25 3672 82.6 73 137 5 KS84HW196 24 3665 81.5 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8					80.9					2
TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 KS82C2338 25 3672 82.6 73 137 5 KS84HW196 24 3665 81.5 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8					80.2					2
TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 KS82C2338 25 3672 82.6 73 137 5 KS84HW196 24 3665 81.5 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8										5
TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 KS82C2338 25 3672 82.6 73 137 5 KS84HW196 24 3665 81.5 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8										7
TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 KS82C2338 25 3672 82.6 73 137 5 KS84HW196 24 3665 81.5 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8		_								2
TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 KS82C2338 25 3672 82.6 73 137 5 KS84HW196 24 3665 81.5 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8										2
TX86V1110 19 3708 80.4 87 136 2 WH180001 39 3679 80.9 81 137 3 KS82C2338 25 3672 82.6 73 137 5 KS84HW196 24 3665 81.5 73 137 8 C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8		9								8
C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8					0/L 0/L //					8
C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8					20.0					2
C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8										3
C0830014 23 3549 78.9 82 138 8 NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8										5
NE82533 26 3490 81.7 80 139 8 C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8										8
C082009 20 3217 82.4 83 140 7 Bounty-122 38 3212 77.9 75 138 8										8
Bounty-122 38 3212 77.9 75 138 8										8
TY94V1726 10 2174 00 1	Bounty-122									/
XW141 34 3120 78.3 67 137 2 C11442 1 2923 80.1 95 140 7	TX84V1736				83.6					g
CI1442 1 2923 80.1 95 140 7	XW141									ກ
140	CI1442	1								4
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CLAY CENTER
NEBRASKA
THREE REPLICATIONS

C.I. OR	: :ENTRY:	YIELD	: VOLUME : WEIGHT	: PLANT : HEIGHT :
SEL. NO.	: NO. :	KG/HA	: WEIGHT : KG/HL	: HEIGHT :
JLL: NO.	* 110 * *	Kuyiin	· NOTTIC	• •
NE82656	29	3404	76.8	75
NE83407	28	3097	75.7	62
NE84557	27	2803	79.3	74
CI13996	2	2745	7 9. 5	82
TXGH10563B	11	2734	77.1	66
AGC-112	32	2714	76.9	66
TXGH13622	13	2703	79.7	66
NE82533	26	2697	77.8	70
XH675	36	2669	77.8	71
RL844677	30	2642	79.9	69
TX84V1317	14	2641	80.9	64
NA-W83-256	41	2631	77	64
TX86A7041	17	2627	75.7	64
IL80-1251	44	2622	79.2	67
RL845472	31	2564	79.3	73
XW161	35	2558	78.7	60
XH685	37	2477	77.4	70
CI17826	3	2470	77.7	65 63
NA-W84-229	40 25	2428	77.8	63
K\$82C2338	25 7	2425 2340	79.5 80	64 63
0K86197 C0830034	, 22	2292	79.6	68
1L83-7439	43	2265	73.0 77	65
CI1442	1	2208	75.3	90
C0830027	21	2194	80.2	65
C0830014	23	2131	78.6	žŏ
0K86215	8	2104	78.4	63
TX87HA1	45	2078	78.8	64
TX84V1336	12	2067	79.3	63
C082009	20	2062	78.4	67
TX86V1109	18	2058	78.2	65
XW141	34	2040	76	59
AGC-113	33	2020	75.6	7 2
TX86V1110	19	1956	76.9	67
NA-W81-162-W	42	1945	80	58
0K84286	5	1923	79.2	59
Bounty-122	38	1821	75.1	60
TX81V6607-2	15	1770	82.2	57
TX81V6582-2	10	1749	81.5	60
WH180001	39	1723	76.6	67
0K84287	6	1706	79.6	56
TX84V1736	16	1640	79.5	61
KS84HW196	24	1473	80.9	63
0K84343	4	1277	77.1	60
TXGH10989	9	960	77	64
				
MEAN		2254		

ALLIANCE NEBRASKA THREE REPLICATIONS

		YIELD	: VOLUME :
C.I. OR	ENTRY	11669	: WEIGHT :
SEL. NO.	: NO. :	KG/HA	KG/HL
		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 1107112
AGC-113	33	4925	72.5
AGC-112	32	4799	72.4
TX84V1736	16	4780	72.9
XH685	37	4778	73.5
WH180001	39	4764	73.9
TXGH10563B	11	4735	73.9
XH675	36	4690	72.9
CI 17826	3	4666	73
TX87HA1	45	4623	76.8
TX81V6582-2	10	4616	77.4
IL80-1251	44	4606	73.7
NE83407	28	4555	70.6
NE82656	29	4552	71.5
TX84V1317	14	4500	74.8
TXGH13622	13	4457	75.2
NA-W83-256	41	4443	74.7
RL845472	31	4427	75.1
NA-W81-162-W	42	4380	76.9
0K86215	8	4376	73.5
NE82533	26	4374	77.4
KS82C2338 XW161	25 35	4369	75.1 73.1
TX86A7041	35 17	4337 4335	73.1 69
NA-W84-229	40	4335	75.5
TX86V1110	19	4314	74.4
TX86V1109	18	4261	74.3
Bounty-122	38	4224	72.2
XW141	34	4216	72
0K86197	7	4182	74.7
OK84286	5	4181	73.8
RL844677	30	4167	71
C0830027	21	4163	73.5
C0830034	22	4162	70.7
KS84HW196	24	4145	74.4
IL83-7439	43	4096	77.4
CI13996	2	4091	74.4
NE84557	27	4086	78.4
C082009	20	4015	72.6
TX84V1336	12	3944	73.5
TXGH10989	9	3893	74.2
TX81V6607-2	15	3891	76.8
0K84343	4	3862	76. 1
OK84287	6	3750	73 .9
C0830014	23	3452	75.3
CI1442	1	3041	73.4
MEAN		4301	
LSD(.05)		482	

C.V. 6.9

BROOKINGS S. DAKOTA

THREE REPLICATIONS

				<u></u>				
	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO:
C.I. OR	:ENTRY:		:	WEIGHT	:	HEIGHT	:	HEADING:
SEL. NO.	: NO. :	KG/HA	:	KG/HL	:	CM	:	FROM 1/1:
						4		4.50
NA-W83-256	41	2662		77.5		62		150
XH675	36	2341		77.5		65		151
CO830034	22	2313		76		63		151
NE83407	28	2238		76 .9		5 6		151
0K84287	6	2199		80.2		5 8		150
NE82656	29	2178		75.7		64		150
AGC-113	33	2157		77.3		63		152
IL83-7439	43	2130		77.9		62		151
TX86V1110	19	2093		77.1		64		151
TX81V6607-2	15	2045		82.8		58		151
0K84286	5	1973		76 .6		54		150
0K86215	8	1970		76.9		67		151
TX84V1336	12	1963		79.1		54		151
NE84557	27	1902		79.7		62		150
NE82533	26	1877		79.3		65		151
TX87HA1	45	1874		78.8		65		150
NA-W81-162-W	42	1863		79.7		58		150
XH685	37	1826		75.5		6 6		151
0K86197	7	1813		78.9		59		151
TX81V6582-2	10	1813		78		60		151
XW161	35	1807		77.1		52		151
CO830027	21	1794		80.2		6 8		151
NA-W84-229	40	1748		76		58		151
TX86A7041	17	1723		76.6		57		151
AGC-112	32	1698		76		58		150
CI17826	3	1692		76.2		55		150
CI13996	2	1691		77.9		68		149
RL844677_	30	1690		79.5		65		150
KS82C2338	25	1657		79.5		62		151
RL845472	31	1608		78.6		61		150
TX86V1109	18	1600		75.7		59		151
TXGH13622	13	1592		76.9		51		151
TXGH10563B	11	1572		78.2		57		151
IL80-1251	44	1567		76.9		60		151
WH180001	39	1555		77.3		62		151
KS84HW196	24	1484		81.3		58		150
TX84V1317	14	1445		80				
C082009	20	1361		, ,				
TX84V1736	16	1345						
0K84343	4	1267						
Bounty-122	38	1253						
C0830014	23	1186						
CI1442	1	1140						
TXGH10989	9	1090						
XW141	34	1042						
MEAN		1752						
LSD(.05)		548						

LSD(.05)

PRESHO
S. DAKOTA
THREE REPLICATIONS

C.I. OR	: :ENTRY:	YIELD	: VOLUME : WEIGHT	: PLANT : HEIGHT	: DAYS TO : HEADING :
SEL. NO.	: NO. :	KG/HA	: KG/HL	: CM	: FROM 1/1:
					1 111011 27 24
TXGH13622	13	2460	70.4	55	148
AGC-112	32	2328	70.6	62	147
TXGH10563B	11	2154	69.5	58	148
CI13996	2	2095	69.7	64	148
0K86215	8	2082	70	57	147
TX81V6607-2	15	2074	74.2	54	148
NE84557	27	2047	66.4	58	149
NA-W83-256	41	2042	68.9	60	149
IL80-1251	44	2003	68.8	58	149
NA-W81-162-W	42	2001	69.1	53	149
CI17826	3	1974	66.9	53	148
RL845472	31	1966	71.1	57	150
TX86V1109	18	1921	69.5	58	148
XH675	36	1911	70.2	61	148
NE83407	28	1902	69.5	58	150
NE82533	26	1899	69.3	61	150
0K86197	7	1891	71.1	54	147
RL844677	30	1880	67.5	60	151
TX81V6582-2	10	1839	67.3	59	150
TX87HA1	45	1837	71.5	61	147
0K84286	5	1794	67.8	55	149
IL83-7439	43	1791	66.8	53	150
NE82656	29	1779	67.1	61	150
TX84V1336	12	1725	67.5	49	149
KS82C2338	25	1723	69.3	59	149
C0830034	22	1704	68.4	58	150
C0830027	21	1689	71.5	58	149
TX84V1317	14	1677	69.8	52	149
WH180001	39	1660	68.8	58	150
NA-W84-229	40	1636	68.2	52	151
C082009	20	1614	69.3	52	150
TXGH10989	9	1610	68.8	54	150
KS84HW196	24	1608	71.5	56	147
TX86V1110	19	1592	60	58	148
XH685	37	1569	68.2	60	149
C0830014	23	1560	68.8	62	148
0K84287	6	1538	70.2	53	148
TX86A7041	17	1510	63.1	56	150
AGC-113	33	1481	62.8	56	151
XW141	34	1423	64.6	58	151
TX84V1736	16	1418	68.4	47	148
Bounty-122	38	1402	66.4	60	148
0K84343	4	1391	67.8	57	151
CI1442	i	1361	67.1	69	155
XW161	35	1343	68.2	50	148

CASSELTON

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.		WINTER SURVIVAL %	
CI1442 CI13996 CI17826 OK84343 OK84286 OK84287 OK86197 OK86215 TXGH10989 TX81V6582-2 TXGH10563B TX84V1336 TXGH13622 TX84V1317 TX81V6607-2 TX84V1736 TX86A7041 TX86V1109 TX86V1109 TX86V1110 CO82009 CO830027 CO830027 CO830034 CO830014 KS84HW196 KS82C2338 NE82533 NE84557 NE83407 NE82656 RL844677 RL845472 AGC-112 AGC-112 AGC-113 XW141 XW161 XH675 XH685 Bounty-122 WH180001 NA-W81-162-W IL83-7439 IL80-1251 TX87HA1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 12 22 22 22 22 23 31 32 33 34 35 36 37 38 39 40 41 42 43 44 44 44 44 44 44 44 44 44 44 44 44	32 32 22 12 12 12 7 7 8 5 10 10 10 18 5 0 2 2 3 3 3 5 3 3 3 5 7 0 2 2 8 3 3 3 5 3 3 5 3 3 5 3 5 3 5 3 5 3 5 3	

COLUMBIA
MISSOURI
THREE REPLICATIONS

C.I. OR	: :: :ENTRY:	YIELO	: VOLUME : WEIGHT	; PLAI		:LEAF RUST :SEV.:RESP:		-;
SEL. NO.	: NO. :	KG/HA	: KG/HL	: Ch				:
	7 1101		1 1100/1100	<u> </u>				
TXGH13622	13	6424	77.1	91	131	40	7	
XH675	36	6413	74.9	92	132	12	5	
TX87HA1	45	6133	77.4	91	131	13	7	
0K86215	8	6056	76.1	89	130	10	6	
WH180001	39	6054	75.1	97	133	5	5	
AGC-112	32	6020	75.2	88	131	50	8	
TX81V6582-2	10	5993	76.8	83	130	7	8	
XH685	37	5935	74	88	133	10	5	
TX84V1317	14	5914	75.6	81	131	4	ž	
TXGH10989	9	5910	73.4	87	132	7	5	
IL83-7439	43	5906	75.3	101		•	5 7	
0K84286	5	5894	76.2	86	131	•	5	
NA-W81-162-W	42	5861	76.8	84	131	ż	7	
RL844677	30	5810	75.9	86	135	4	5	
RL845472	31	5810	76.4	94	134	5	5	
TX81V6607-2	15	5689	76.9	81	131	4	6	
0K84287	6	5636	76.6	88	130	2	5	
0K86197	7	5578	75.3	91	129	17	7	
IL80-1251	44	5570	74.3	88	136	2	6	
XW161	35	5538	73.4	82	129	۲.	9	
KS82C2338	25	5517	77.9	88		10	7	
TX86V1109	18	5500	76	94	130 130	10	7	
TX84V1336	12	5459	76 74	94 86		.	5	
NA-W83-256	41	5443	74.2		130		8	
NE83407	28	5439	73.3	88	134	4	5	
C0830027				83	134	5	5 6	
NE84557	21 27	5276 5270	77 76.6	90	131	5	6	
				98	137	4	5	
TXGH10563B TX86A7041	11	5259	76.2	88	130	40	8	
	17	5252	71.6	85	134	2	6	
C0830034	22	5249	75.5	97	135	17	6	
KS84HW196	24	5247	75.9	85	130	23	8	
AGC-113	33	5245	72.1	91	135	23	7	
TX84V1736	16	5205	76.8	78	129	15	8	
0K84343	4	5181	74	83	134	•	6	
NE82656	29	5149	72.6	85	136	•	5 5	
TX86V1110	19	5026	75.9	93	129	•	5	
Bounty-122	38	5026	73.7	87	131	10	8	
NE82533	26	4960	75.2	93	136	8	5	
CI17826	3	4923	75.6	89	133	43	8	
XW141	34	4839	67.6	82	135	2	6	
NA-W84-229	40	4777	74.4	84	133	4	6	
C0830014	23	4770	76.2	104		10	6	
CI13996	2	4271	72.1	10:	5 136	23	6	
C082009	20	4049	75.2	94	136	5	6	
CI 1442	1	3917	73.1	109	9 137	17	5	

MEAN 5431 LSD(.05) 1007 C.V. 11.5

AMES
IOWA
THREE REPLICATIONS

C.I. OR	: :ENTRY:	YIELD	: VOLUME : WEIGHT	:		: DAYS TO : HEADING :	RIPENING:		: WINTER :SURVIVAL
SEL. NO.	: NO. ;	KG/HA	: KG/HL	:	CM	: FROM 1/1:	FROM 1/1:	%%	: %
NE82656	29	4351	75.3		86	142	174	1	97
TX87HA1	45	4344	76.8		82	139	175	Ô	90
IL80-1251	44	4295	76.5		80	141	174	Ö	92
AGC-113	33	4235	76.2		74	143	176	0	94
NE83407	28	4154	75.6		75	140	175	1	88
TX86V1110	19	4080	76.1		77 77	139	171	ů	94
AGC-112	32	4013	73.4		76	139	174	Õ	8 9
IL83-7439	43	3878	77.4		73	143	173	1	94
TXGH13622	13	3847	76.5		72	141	176	0	69
RL845472	31	3766	77.4		82	141	174	0	93
CI13996	2	3753	76.8		92	142	174	6	93 94
TX86V1109	18	3688	75.9		76	139	174	0	
NE82533	26	3528	75.9 76		80	143	176	1	96 77
	26 35	3528 3488	76.6		60				77 05
XW161 CI17826	35 3	3488 3475	70.0 74.9			137	172	0 0	95 96
	3 17				78 60	139	175		86
TX86A7041		3414	75.6		69	142	173	0	83
0K86215	8 5	3401	77.8		73	139	173	1	85
0K84286	_	3331	79.7		70	140	175	0	81
XH675	36	3250	76.6		76	140	176	0	77
RL844677	30	3203	78.6		80	142	176	2 2	73
TX84V1736	16	3170	79.3		64	139	172	2	73
XH685	37	3163	76.2		77	140	176	1	85
0K84287	6	3134	79.2		69	140	175	1	73
NA-W83-256	41	3022	76.1		70	141	175	1	81
TXGH105638	11	2975	74.3		73	140	174	1	69
CI1442	1	2948	76.5		98	148	179	9	93
NE84557	27	2921	79.1		80	145	177	1	45
C0830034	22	2878	78.3		78	144	177	0	60
0K86197	7	2851	78.2		70	141	173	0	59
TX84V1336	12	2627	76.9		63	140	174	0	55
XW141	34	2365	70		62	142	176	0	8 <u>4</u>
NA-W81-162-W	42	2365	78.8		58	142	176	2	47
KS82C2338	25	2183	78.9		69	140	174	0	47
C082009	20	2136	77.4		75	145	179	0	70
C0830027	21	2047	78.7		72	141	176	1	40
TX84V1317	14	1867	79.2		60	140	175	0	22
Bounty-122	38	1825	73.8		67	143	177	1	32
KS84HW196	24	1401	79.9		62	142	174	0	28
WH180001	39	1219	74.4		73	143	176	1	22
C0830014	23	1078	76.4		68	141	177	0	17
NA-W84-229	40	1029	77.5		56	143	178	0	12
TX81V6582-2	10	726	•		58	143	176	0	12
0K84343	4	460	•		63	145	176	0	5
TXGH10989	9	448	•		65	145	178	0	4
TX81V6607-2	15	195			48	145	175	0	2

URBANA
ILLINOIS
THREE REPLICATIONS

C.I. OR	ENTRY:	YIELD	: VOLUME : WEIGHT	: PLANT : HEIGHT	: DAYS TO : HEADING :	
SEL. NO.	: NO. :	KG/HA	: KG/HL	: CM	: FROM 1/1:	%
ГХ87НА1	45	5070	75.3	87	136	100
TXGH13622	13	4881	76.5	87 87	135	100
TXGH10563B	11	4801	74.2	81	136	100
)K86215	8	4795	74.2 76	82	135	100
TX86V1110	19	4793	74.8	85	135	100
NE83407	28	4700	73.9	85	138	100
)K84286	5 18	4695	77	82	136	100
TX86V1109		4641	75.3	92	136	100
RL844677	30	4591	75.5	94	138	100
AGC-112	32	4525	73.7	78	136	100
(W161	35	4518	74.7	75	136	100
K84287	6	4515	77.8	80	136	100
L80-1251	44	4488	76.2	90	139	100
L83-7439	43	4476	77	91	140	100
117826	3	4472	73.9	80	136	100
IA-W83-256	41	4453	74.7	88	138	100
KS84HW196	24	4436	77.5	81	136	100
\GC-113	33	4403	74.4	89	139	100
TX84V1736	16	4361	76	74	135	100
0830034	22	4354	74.8	90	140	100
ΓX84V1336	12	4350	75.7	76	135	100
NE82533	26	4348	7 5. 8	91	139	100
NE84557	27	4318	76.5	96	141	100
DK84343	4	4291	73.9	78	138	100
ΓX84V1317	14	4254	76.4	76	135	100
KH675	36	4228	73.3	88	137	93
KS82C2338	25	4169	76.6	81	136	100
OK86197	7	4149	75.8	81	136	100
NE82656	29	4044	71.7	86	140	100
RL845472	31	4007	76.5	90	138	100
XH685	37	3991	72.7	90	137	100
NA-W81-162-W	42	3963	77.6	72	136	100
0830027	21	3860	76.7	86	136	100
TX86A7041	17	3847	72.8	74	139	100
XW141	34	3691	71.3	79	139	100
C0830014	23	3663	74.4	91	137	100
CI13996	2	3553	75.4	97	141	100
WH180001	39	3426	72,9	84	139	100
082009	20	3335	75.4	90	139	100
Bounty-122	38	3108	70.9	80	137	100
NA-W84-229	40	2837	72.8	72	138	100
CI1442	i	2626	71.2	98	142	100
TXGH10989	9	2598	72	69	137	45
TX81V6582-2	10	1953	74.5	58	137	33
TX81V6607-2	15	1128	75.4	59	138	33 8
	- 4		79.7	JJ	120	0

LIND
WASHINGTON
THREE REPLICATIONS

C.I. OR	: :ENTRY:	YIELD		PLANT HEIGHT	: DAYS TO : HEADING :
SEL. NO.	: NO. :	KG/HA		: CM	: FROM 1/1:
D. 041477	20	01.45	00.0	C.4	1.41
RL844677 NA-W84-229	30 40	2145 2069	80.2 79.9	64 58	141 139
NE84557	27	2009	79.3 79.3	66	141
TX84V1336	12	1997	81 81	60	137
WH180001	39	1997	77 .1	64	140
C0830034	22	1984	79.3	56	141
XH685	37	1975	77.5	60	139
TX86A7041	17	1957	76.8	53	141
RL845472	31	1946	78.3	60	138
AGC-112	32	1941	78.2	58	138
TX84V1736	16	1907	79.2	51	137
NE82533	26	1901	78.6	59	140
CI17826	3	1887	79.1	52	138
C082009	20	1881	79.2	64	142
CI13996	2	1825 1820	79.9	66 70	137 137
C0830014	23 13	1744	79.6 78.7	70 57	137
TXGH13622 XH675	36	1744	76.7 76.9	60	140
AGC-113	33	1690	70. <i>3</i> 78	58	142
XW161	35	1688	80.2	55	137
TXGH10563B	11	1679	77.7	59	137
NE82656	29	1679	76.9	58	143
NA-W83-256	41	1632	76.5	56	14 1
IL83-7439	43	1630	77.4	55	138
TX86V1109	18	1592	77	61	138
K\$82C2338	25	1592	79.6	59	137
TX81V6582-2	10	1584	80.5	56	138
KS84HW196	24	1567	79 .9	57	137
C0830027	21	1558	79.3	60	141
TX81V6607-2	15	1547	80.1	52 63	139 140
Bounty-122	38 8	1547 1482	76.2 77.1	52	138
0K86215 NE83407	28	1439	77.1	5 6	142
CI 1442	1	1437	78	68	146
IL80-1251	44	1436	76 . 1	61	141
TX84V1317	14	1403	79.7	57	138
0K84286	5	1374	76.9	58	142
NA-W81-162-W	42	1365	78.9	51	140
0K84343	4	1341	75 .7	60	141
TX86V1110	19	1325	75.9	62	138
TX87HA1	45	1314	78.8	60	137
TXGH10989	9	1309	77.4	59	139
XW141	34	1298	77.3	53	142
OK86197	7	1121	77	53	139
0K84287	6	1085	76.8	57	142

ABERDEEN
IDAHO
THREE REPLICATIONS

	: :	YIELD	:	PLANT		DAYS TO:	LODGING	: STRAW :
C.I. OR	:ENTRY:		:	HEIGHT	: HEADING :	RIPENING:		:STRENGTH :
SEL. NO.	: NO. :	KG/HA		CM	: FROM 1/1:	FROM 1/1:	0-9	: 1-5 :
TVANIAAC	10	£ 407		06	150	100	^	•
TX84V1336	12	6427		86	152	188	0	3
TXGH10563B	11	6143		92	154	189	3	3 4
AGC-113 C0830034	33 22	5865		104	159	189	0	q
		5782		98	159	187	1	3 2 3 3 4
CI17826	3	5515		92	153	185	1	2
TX81V6607-2	15	5499		82	154	187	0	3
TX84V1317	14	5376		81	153	186	0	3
TXGH13622	13	5333		92	156	188	1	3
C0830027	21	5314		95	155	188	2	
NA-W84-229	40	5214		81	157	186	1	1
WH180001	39	5210		96	157	185	0	3221322233233233
NA-W83-256	41	5177		93	159	188	2	2
C082009	20	5135		104	157	189	1	2
XW161	35	5130		76	151	185	0	1
IL80-1251	44	5043		90	155	184	0	3
Bounty-122	38	4994		91	158	189	0	2
AGC-112	32	4973		86	155	185	1	2
XW141	34	4970		82	156	187	0	2
TX86V1110	19	4954		96	154	184	0	3
NE83407	28	4940		91	158	188	0	3
0K86215	8	4938		91	151	187	0	2
TX86V1109	18	4 8 87		95	154	184	0	3
TX87HA1	45	4886		92	155	188	1	3
NA-W81-162-W	42	4851		82	156	199	Ö	$\bar{2}$
TXGH10989	9_	4831		86	152	186	1	$\bar{3}$
TX86A7041	17	4791		82	159	186	ī	3
IL83-7439	43	4771		93	156	186	ā	ī
XH675	36	4751		95	157	186	Õ	3
TX81V6582-2	10	4744		80	150	185	ĩ	ž
NE82533	26	4739		86	156	186	ō	3
XH685	37	4683		94	156	186	ĭ	3 2 3 3
RL845472	31	4607		91	155	186	Ž	4
K\$82C2338	25	4585		87	155	185	ō	ર્ક
NE84557	27	4575		94	156	183	ŏ	2
TX84V1736	16	4534		76	151	199	1	2
0K84287	6	4503		88	155	188	ô	5
RL844677	30	4468		103	159	189	ŏ	2
0K84286	5	4446		84	155	186	1	2
0K84343	4	4431		81	156	185	Ó	9
C0830014	23	4411		109	156	185	1	2
CI13996	2	4393		112	155	186	4	<u>د</u> د
NE82656	29	4367		92	159	187	1	2
CI1442	1	3894		105	161	190	5	ر د
0K86197	7	3782		85	151	184	0	22233225353
KS84HW196	24	3323		89	153	198	1	ა 2
					_	-50	T	4

MEAN 4893 LSD(.05) 1112 C.V. 13.9

		••	BUSHLA	: QN	BUSHLAND	GNA	CHILI	-		!		
VARIETY OR PEDIGREE	: C.I. OR : SEL. NO.	: ENTRY:	(DRYL.) TEXAS	····	(IRR.) TEXAS	···	TEXAS	π. λ2 	DALLAS	35	STATE MEAN	MEAN :
TX718562-6*4/Amigo*4//Largo	TXGH13622	13	3160	m	5102	10	4580	ın e	3973	7	4204	mı
TAM-105*4/Amigo*4//Largo HRW Selection	TXGH10563B AGC-112	11 32	3039 3014	യ വ	5502 5142	4 α	4492	93.99	3630	18 27	4166 3903	15
Winter Wheat Hybrid	XH675	36	2650	17	4922	12	4084	23	4222	- - ∝	3970 4265	Ξ.
KS/3146/1X/1A1039 TAM W-101/W603/W558	1 XW161	35	1950	. gg	5360	າເກ	4723		3984	إص	4004	10,
Must/3/T-105*4/Ami*4//Largo, TXGH10289	TX87HA1	45	2825	12	5273 4009	9 %	4557	٥ م	3702	17	4089 3739	18 18
Winter Wheat Line Winter Wheat Hybrid	XL644077	37.	2637	18	4649	20,	4069	ᄺ	3924		3820	15
OK79257/Century Sib/2/Chisholm	0K86215	ω.	2672	16	4878	14	4046	34	3907	96	3876	13
TX71A374-4/TX71A1039-V1 TX60A330/1176 3820	TX84V1317	Ե 4	29//	~ 2e	510/ 4400	24.5	4389	32	3136	375	3539 3539	10 28
\bs\assu(1L/0=3820 Payne*2/C0725052	0K84286	. rv	2825	12	4887	<u>:</u>	3974	37	3714	19	3850	77
Payne/W78-069	NA-W83-256	4,5	2369	24	4220	ଷ୍ଟ	4066	32	4094	4 ¢	3687	21 35
Brule/3/Parker*4/Agent//Belot.198/Lcr Tam_108/Arkan	NE82656 TX86A7041	17	2319	2 t 2 t 2 t 2 t	4142	¥ 8	4170	22	4192	96	3701	20
TX71A1039-V1*3/Amigo	TX81V6607-2	12	3685		6226	t	4741	, ;	3560	13	4553	<u>ب</u> ر
Complex Pedigree	NE8340/ C0830027	85	2839	3.4 1.0	4014	ე ე ე	431/	7 4	3775	3.5	3442 4012	7 8
/4cb4b2/1rappe1//voia C05926//7C/Tobari 63/3/Baca	C0830034	22	2857	9	3902	37	4140	23	3326	8	3556	72
HRW Selection	AGC-113	ee .	2435	22	2966	43	4096	4 28	3494	20	3248	40 34
IAM-IU5 07112524 /479-1226	C11/820 NA-W81-162-W	v 4	2329	27	4487	55	4542	<u> </u>	3791	12	3787	17
Uniter Wheat Line	RL845472	:E;	2570	19	4297	82	4176	38	3297	35	3585	<u>2</u> 6
Sturdy*3/Amigo_	TX81V6582-2	10	33/3	2 15	2584	70	4311	2 0	3115	2 2	4150 2551	4.6
Payne*2/C0/25052 . TAM_106 mesel /TX6004819	UK8428/ TX84V1736	16	2740	14	5183	۲ ا	4165	នន	4081	, r	4042	7
Bulk Selection	KS82C2338	52	2361	25	4694	19	4075	8	3298	33	3607	24
9/ctk	TX86V1110	19	2326	3 3 3 3	4048 3270	ಜ್ಞ ಜ್ಞ	4398	10	3303	82	3518	50,50
Wrr/Sut//MOWOB11/3/Aga 3/4/NEOG45//CtK/G Dannawa/NF701136//CT13449/C+k	TX86V1109	18	2063	3.6	4072	3 8	4131	24	3757	12.7	3506	38
Rounty Hybrid Wheat	WH180001	88	2031	35	4407	23	4122	52	3113	න	3418	833
Aurora/2*TAM W-101	0K84343	41	2260	31	4974	11	4013		3409	35	3564	22 25 25
Hawk/UK8UU99 1770 - 227 / Daving	UKB019/ NA-W84-229	₽	1927	40	4781	12	4001	3 %	3170	1 K	3470	315
1/77-4259/1L76-3845	IL83-7439	43	1541	44	3823	8	3757	49	3078	40	3050	42
٠,	NE82533	8	1841	270	3045	42 - 1	4120	75	3294	3,5	30/5	4 t
TAM W-101*4/Amigo*4//Largo	IXGHIU989	n c	1007	۰ <u>۲</u>	4/3/	3 5	4147	22	4190	4 m	3732	2 6
Bounty-Hybrid wheat Revestave/TAM W_101/W558	XW141	3, 25,	1875	41	4344	29	4201	11	2699		3279	37
	CI13996	2	1987	36	2870	44	3762		2910		2882	43
Bsn/Strlng//3*Sut/3/Eag/4/Pinnacle/2*Eag	KS84HW196	54	2321	නුද	4389	2 2	3237		3171		32/9	æ 4
74cb452/Vona//Baca 74F878/Winds//Yona	C0830014 C082009	ខ្ល	2114	88	3152	41	3654	43	2565	34	2871	44
Kharkof	C11442	H	1017	45	1734	45	2849	4	1343		1736	45
	MEAN		2437		4410		4141		3461		3612	
	LSD(.05)		475 13 0		200.4		532		442		288	
	۲.۲.		13,3				:		?		3	

with state means and ranks.

Table 2. Continued.

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, ,	7.611.62.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.
COLORADO STATE MEAN	2039 2018 2306 1707 1707 11750 11750 11750 11750 11736 11736 11736 11736 11736 11736 11736 11736 11736 11736 11736 11736 11736 11737
88	45775933 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
JULESBURG	1567 1538 1921 1043 1043 1043 1057 1057 1057 1057 1057 1057 1057 1057
70g 000	440 8 3 3 3 4 4 4 8 8 8 3 3 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1
BURLINGTON COLORADO	2715 2817 2817 2817 2817 2817 2817 2818 2828 282
→ g	4 3 4 1 3 3 6 4 1 3 6 6 1 1 4 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1
AKRON	1835 1378 1378 1378 1547 1113 1119 1135 1124 1127 1127 1127 1127 1127 1127 1127
Z S	8345338837414422552233338452774473263573444453583333333334544453388334444535552333333345455333334545
NEBRASKA STATE MEAN	
STS	3350 3350 3350 3350 3350 3350 3350 3350
SKA	23 25 25 25 25 25 25 25 25 25 25 25 25 25
ALL IANCE NEBRASKA	4457 47357 47357 4606 4606 4778 4778 4776 4776 4776 4776 4776 4780 4780 4780 4780 4780 4780 4780 4781 4784 4784 4784 4784 4784 4784 4784
}	
CLAY CENTER NEBRASKA	24 24 24 24 24 24 24 24 24 24 24 24 24 2
E G G	2703 2734 2734 2734 2669 2669 2677 2677 2677 2756 2756 2756 2756 2756
	NIO 10 MN D-10-10-10-10-10-10-10-10-10-10-10-10-10-
LINCOLN	2002408688888888888888888888888888888888
l I	4721 4589 45636 45636 45636 45636 45636 470 470 470 47178 47
ENTRY: NO.	100334
C.I. OR SEL. NO.	TXGH13622 TXGH10563B AGC-112 XH675 TX84V1336 TX87HA1 RL844677 XH685 OK86215 TX84V1317 TX84V1317 UL80-1251 OK84286 NA-W81-256 NE3407 C0830027 C0830027 C0830027 C0830027 C0830027 C0830027 C0830027 C0830027 C0830027 TX84V136 NA-W81-162-W RL845472 TX86V1110 NE84557 TX86V1110 NE84557 TX6V11099 WH180001 OK84343 OK84343 OK84343 OK84343 OK84343 OK84343 C113996 KS84HW196 C113996 C113996 C113996
" '	TXGH13 TXGH10 AGC-111 XW161 TX84V11 TX84V11 TX84V11 TX84V11 TX84V11 TX81V65 NA-W83 NE 2623 TX84V17 TX81V65 NA-W81- TX81V65 NA-W81- TX81V65 NA-W81- TX81V65 NA-W81- TX81V65 NA-W81- TX81V65 NA-W81- TX81V65 NA-W81- TX81V65 NA-W81109 OK84343 OK84343 OK84343 OK84343 CI13996 CI13996 CI13996 CI13996 CI13996 CI13996 CI13996 CI13996

Table 2. Continued.

C.I. 0R		HUTCHINSO	·· <u>*</u>	HAYS	. MAN	MANHATTAN	·····	GARDEN	DEN TY	X X	KANSAS STATE MEAN		BROOK INGS	 PRESHO	_ <	SOUTH DAKOTA STATE MEA	TH OTA MEAN	ļ
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MEAN LSD(.05) C.V.		1542 445 17.7	224.1	2237 429 11.7	© 20 m	3945 566 8.8		2683 377 8.6		254.0	2955 423 9.6	17	1752 548 19.2	1776 443 15.3		1764 525 17.3		1
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COLUMBIA	6424 6424 6413 6413 6413 6413 6413 6413 6413 641	5431
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OKLAHOMA STATE MEAN	3551 3757 3757 3757 3757 3757 377 377 377 37	3746
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GOODWELL OKLAHOMA	3684 4292 4292 4292 4346 4413 4413 4413 4403 3392 3392 3393 3436 4403 3403 3	4075
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LAHOMA OKLAHOMA	3961 4363 4363 4363 4363 4363 4363 4368 4368	434B
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CLOVIS (DRYL.)* NEW MEXICO	2922 20454 20454 20454 2046 20470 2033 2033 2033 2033 2033 2033 2033 20	1675 987 36.1
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C.I SEL	TXGH13622 TXGH10563B AGC-112 XH675 TX84V1336 XW161 TX87HA1 TX87HA1 TX87HA1 TX87HA1 TX84V1317 TX84V1317 TX84V1317 TX84V1317 TX84V1317 TX84V1317 TX84V1317 TX84V6007-2 NE33407 C0830034 AGC-113 C117826 NA-W83-256 NA-W83-256 NA-W83-256 NE3407 TX81V6607-2 TX81V6007-2 TX81V6007-2 TX84V1736 KS82C233B TX84V1736 KS84C1399 NE84557 TX86V1109 WH180001 OK84343 OK86197 NE84557 TX86V1109 WH180001 OK84343 OK86197 TX86V1109 WH180001 OK84343 C113996 C113996 C082009 C11442	MEAN LSD(C.V.

* Not included in state or regional averages.

Table 3. Summary of mean yields (kg/ha) and ranks of 45 wheats grown in the 1988 Southern Regional Performance Nursery at 15 locations from the Midwest from which a CV of 14 or less and a significant F test for entries were obtained.

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	288817440 20171281181818 2411428 2820 2820 285 1182 275 285 285 285 285 285 285 285 285 285 28	
(DRYL.) TEXAS	3039 1950 3160 3160 3160 3160 3160 3160 3173 3173 3173 3173 3173 3173 2677 2650 2749 2777 2770 2770 2770 2770 2770 2770 277	2437
	4 4 4 4 8 8 6 6 6 7 8 9 8 9 8 9 8 9 8 9 8 9 9 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
(IRR.) TEXAS	5502 5102 5102 5102 5102 5102 5102 5102	4410 500
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DALLAS		
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C.I. D	TXGH10563B XW161 TXGH13622 TX81V6607-2 TX84V1317 TX84V1317 TX84V1336 AGC-112 TX81V6582-2 0K86215 TX87HA1 XH675 TX87HA1 XH685 UK84286 UK84286 UK84287 TX6H1099 TX86V1110	MEAN

Table 3. Concluded.

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REGIONAL AVERAGE	4053 4065 4014 4014 4014 4014 4014 4014 4014 401	3631 289 9.6
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CLOVIS (IRR.) NEW MEXICO	44 333 45 35 45 45 45 45 45 45 45 45 45 45 45 45 45	
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2 <u>w</u>	TX6H1 TX8H1 TX8H2	MEAN LSD(C.V.

Table 4. Summary of mean yields (kg/ha) and ranks for 19 wheats grown in the Southern Regional Performance Nursery at 24 sites in 1987 and 1988 with state means and ranks.

		••		••	CHILLI-		a	BUSHLAND	••	BUSHLAND		
VARIETY OR	: C.I. OR	:ENTRY:	DALLAS	••	COTHE	ш	••	(IRR.)	••	(DRYL.)	: TEXAS	S
PEDIGREE	: SEL. NO.	: NO. :	TEXAS	**	TEXA	S		TEXAS	••	TEXAS	: STATE MEAN	MEAN
IAM-105*4/Amigo*4//Largo	TXGH10563B	11	3742 9		3366	4	4	1988 4		3384 5	3870	က
[X71A562-6*4/Amigo*4//Largo	TXGH13622	13	3802 7		3412	m	4	1759 7		3410 4	3846	9
TX71A374-4/TX71A1039-V1	TX84V1317	14	3806 6		3440	2	4	1934 5		3452 3	3908	4
Sturdy*3/Amigo	TX81V6582-2	10	3744 8		3265	ιΩ	40	5277 2		3554 2	3960	2
(71A1039-V1*3/Amigo	TX81V6607-2	15	4086 2		3482	_	47	502 1		3775 1	4211	-
IAM-105	C117826	m		'n	2846	15	4	1062 13		3110 9	3250	14
KS73146/TX71A1039	TX84V1336	12	3999		3183	7	u.	5128 3		3376 6	3922	സ
Aurora/2*TAM W-101	0K84343	4	3831 5		3097	œ	4	908		2890 11	3656	∞
74cb462/Trapper//Vona	C0830027	21		9	3221	9	4	1727 8		3342 7	3720	7
35926//7C/Tobari 63/3/Baca	CD830034	22	1		3050	10	נייז	3803 15			3321	12
Bounty Hybrid Wheat	Bounty-122	38	_		2662	12	प				3603	10
Bulk Selection	KS82C2338	52		m	3081	თ	•	•		2884 12	3418	Ξ
Bezostaya/TAM W-101//W558	XW141	34	ş1	<u>∞</u>	2980	13	נייז	3966 14			2954	16
KS73167/Agate//Sage sib	NE82533	56	_	4	2892	14	(*)	1517 16		2444 17	3018	15
IAM W-101*4/Amigo*4//Largo	TXGH10989	ס	3852 4		3005	11	4	1483 9		3154 8	3624	o,
Bsn/Strlng//3*Sut/3/Eag/4/Pinnacle/2*Eag	KS84HW196	24		2	2771	16	4			2836 13	3272	13
out 66	CI13996	2		9	2647	8	21	990 18		•	2765	17
74F878/Wings//Vona	C082009	20	2752 1	17	2651	17	(1)	3212 17		2396 18	2753	18
Kharkof	CI1442		•	19	1923	19	-	736 19		1888 19	1774	19
	MEAN		3376		3016		47	1264		2995	3413	
	LSD(.05)		781		593		æ	864		670	480	
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Table 4. Continued.

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SEL. NO.	: NO. :	NEBRASKA	4	NEBRASKA	••	NEBRASKA	4 5	STATE	ÆAN:	NEW MEXICO	XICO	NEW	NEW MEXICO	••	NEW MEXICO	•••	STATE	MEAN :
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TXGH13622	13	3647 2		3149 4		4568	١.	3788	4	6540		33	3915 2	9	6130 1	[]	6335	က
TX84V1317	14	3842 1		3518 1		4749	ىبى	4036	 1	5827	9	27	83 8	Õ			6154	ည
TX81V6582-2	10	3367 8		2835 10		4815	~	3672	9	4673	17	23				ري م	5649	11
TX81V6607-2	15	3144	m	2939 8		4417	_	3500	œ	5177	12	25				ς.	5636	12
C117826	e	3517 6		3090 5		4831	<u>٠</u>	3813	m	6101	4	33				<u>ლ</u>	6095	7
TX84V1336	12	3308 1	0	2636 13	_	4289	2	3411	11	5211	11	27					6120	9
0K84343	4	3569 5		2094 18		•	14	3307	14	5405	œ	56				1	5344	17
C0830027	21	3248 1	!1	2742 12			~	3474	σ	6182	m	27	-			•	6583	-
C0830034	22	3647 2		2964 7				3708	ស	6079	ιΩ	34	-			~	6530	2
Bounty-122	88	2785 16	9	2548 15			10	3244	15	5643	7	31	_				9/09	8
KS82C2338	25	2921	4	2867 9			~	3413	10	4980	14	23				4	5346	16
XW141	34	•	17	2976 6		4315	21	3324	13	5150	13	25					5938	6
NE82533	56	•	ഥ	3312 2		4351	11	3521	7	4774	16	22				_	5567	13
TX6H10989	6		12	1857 19		4119	5	3048	17	5323	10	27				5.	5437	14
KS84HW196	24	3368 7		2377 17		3852	8	3199	16	4328	19	27				Ō,	4536	19
CI13996	2	3339 9		2816 11		3878	[]	3344	12	5331	O,	36	99 4			٩	5405	15
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C11442	m	2468 1	on.	2466 16		3178	6]	2704	19	4425	18	24	48 16		-	18	4760	18
MEAN		3216		2790		4332		3446		5389		29	2968	9	5133		5761	
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ς.ν. ν.		12.2		14.6		8.0		11.1		11.2		18	m	ij	3.1		12.6	

* Not included in state or regional averages.

Table 4. Continued.

C.I. OR :ENTRY: HUTCHINSON*: HANS : MANHATTAN CITY : KANSAS : PRESHO : AMES : LULINOIS SFL., NO. : NO. : NO. : NO. : NO. : NASAS : KANSAS : KANSAS : KANSAS : TANEALISCA				"		"				GARDEN			.,					••		
100 100	C. J. DR	: ENTRY:	HUTCHI	NSON*:	HA)	S	MANHA	TTAN		CITY	••	CANSAS	••	PRESH		⋖	MES	••	URBA	¥
1362 11 2382 6 3640 2 4292 4 2590 2 3507 3 2889 2 3303 9 5495 13137 14 2148 8 3405 1 2395 4 3617 2 2168 12 3170 11 4609 6582-2 10 2746 1 3578 3 3757 11 2395 4 3617 2 2168 12 3170 11 4609 6687-2 15 2712 2 3452 6 2498 3 3498 5 3498 5 3498 6 2511 5 2148 18 4365 1336 1 2348 1	- 1	: NO. :	KANS	AS :	KANS	SAS	KAN	SAS		KANSAS	**	TE MEA	S	DAKO	¥		OWA	••	ILLIN	OIS
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* Not included in state or regional averages.

Table 4. Concluded.

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01.01	NTRY NO.	- -!	w	4	.	Linj.	~	2	_	=	2	<u></u>	ស	¥	9	_	₹	•	8					
C.1. OR SEL. NO. TXGH105G3B TXGH13622 TXB4V1317 TXB4V1317 TXB4V1336 OKB4343 COB30027 COB30027 COB30027 COB30027 COB30027 COB30027 COB30034 Bounty-122 KSB2C2338 XW141 NEB2533 TXGH10989 KSB4HW196 CI13996 COB2009 CI1442 LSD(.05) C.V.	#	_		r	_	_	,,,		7	•4	.4	177	,,,	.,,	.,	Ji	w	.,		-				
C.1. C SEL. N TXGH1056 TXGH1362 TXB4V131 TXB1V656 TXB1V656 TXB1V656 TXB1V656 TXB1V656 TXB1V65 TXB1V133 OKB4343 OKB4343 OKB4343 TXB4V133 OKB2533 TXGH1096 KSB2C233 XW141 NEB2533 TXGH1096 CI13996 CI13996 CI13996 CI13996 CI13996 CI13996 CI13996 CI1442 MEAN LSD(.05)	₩ Q	38	بي	7	12-2	17-2		92				122	<u></u>			<u>ģ</u>	90						_	
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	ای ت	TXG	TXG	ΤX	TX8	TX8	CII	1X8	OKB	C08	88	Bou	KS8	X	NE8.	TXG	KS8	CII	C08	CII		MEA	CSD	۲.۷

* Not included in regional averages.

Table 5. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 45 entries in the 1988 Southern Regional Performance Nursery grown at 26 locations.

	: :	MEAN YIELD	1	•	COEFFICIENT :
	: :	OVER 26	: REGRESSION	: CORRELATION :	: OF :
C.I. OR	:ENTRY:	LOCATIONS	: COEFFICIENT		DETERMINATION :
SEL. NO.	: NO. :	KG/HA	; (b)	: (r) :	(r ²)
Tugudaaaa					
TXGH13622	13	3798	1.07	0.94	0.89
TXGH10563B	11	3757	1.14	0.96	0.92
AGC-112	32	3730	1.02	0.95	0.90
XH675	36	3667	1.12	0.98	0.96
TX84V1336	12	3662	1.16	0.96	0.93
XW161	35	3657	1.14	0.97	0.94
TX87HA1	45	3649	1.01	0.95	0.91
RL844677	30	3639	1.06	0.97	0.94
XH685	37	3598	1.11	0.98	0.95
OK86215	8	35 9 0	1.04	0.97	0.94
TX84V1317	14	3587	1.19	0.98	0.96
IL80-1251	44	3507	1.02	0.97	0.94
0K84286	5	3505	1.05	0.95	0.91
NA-W83-256	41	3494	0.98	0.98	0.95
NE82656	29	3449	0.84	0.92	0.85
TX86A7041	17	3443	1.12	0.94	0.88
TX81V6607-2	15	3434	1.05	0.82	0.67
NE83407	28	3425	0.87	0.94	0.88
C0830027	21	3424	1.13	0.97	0.95
C0830034	22	3420	1.01	0.95	0.90
AGC-113	33	3420	1.00	0.90	0.80
CI 17826	3	3417	1.00	0.94	0.89
NA-W81-162-W	42	3408	1.07	0.98	0.09
RL845472	31	3405	0.82	0.94	0.89
TX81V6582-2	10	3365	1.06	0.88	0.09
0K84287	6	3361	1.04	0.95	
TX84V1736	16	3355	1.03	0.95	0.91 0.89
KS82C2338	25	3354	0.94	0.98	
TX86V1110	19	3349	0.99	0.96	0.95
	27	3346	0.86	0.96	0.91
	18	3342	0.97	0.97	0.93
	39	3336	1.10	0.95	0.93
	4	3300	1.06	0.90	0.91
	7	3278	0.91	0.96	0.80
	40	3268	1.09	0.94	0.91
	43	3210	0.88		0.87
	26	3187	0.83	0.93	0.86
	-	3181	1.07	0.92	0.85
		3134	1.07	0.90	0.81
		3074	1.10	0.96	0.92
		3044	0.69	0.95	0.90
		2984		0.92	0.84
		2973	0.78	0.89	0.78
		905	0.92	0.93	0.87
		270	0.86	0.93	0,86
		2/0	0.73	0.84	0.71

Table 6. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 19 entries in the 1987 and 1988 Southern Regional Performance Nurseries grown at 21 locations.

	: :	MEAN YIELD	:		:		:	COEFFICIENT	
	: :	OVER 21	:	REGRESSION	:	CORRELATION	:	0F	
C.I. OR	:ENTRY:	LOCATIONS	:	COEFFICIENT	:	COEFFICIENT	:	DETERMINATION	
SEL. NO.	: NO. :	KG/HA	:	(b)	:	<u>(r)</u>	:	(r ²)	
TXGH10563B	11	4031		1.08		0.96		0.92	
TXGH13622	13	3999		0.98		0.95		0.90	
TX84V1317	14	3982		1.04		0.96		0.92	
TX81V6582-2	10	3750		1.15		0.92		0.85	
TX81V6607-2	15	3743		1.13		0.90		0.81	
CI17826	3	3729		1.08		0.95		0.90	
TX84V1336	12	3723		1.09		0.93		0.87	
0K84343	4	3703		0.98		0.91		0.82	
C0830027	21	3694		1.08		0.96		0.92	
C0830034	22	3614		1.04		0.95		0.90	
Bounty-122	38	3614		1.21		0.96		0.93	
K\$82C2338	25	3574		0.90		0.96		0.93	
XW141	34	3452		1.09		0.95		0.89	
NE82533	26	3436		0.93		0.93		0.86	
TXGH10989	9	3431		1.00		0.94		0.88	
KS84HW196	24	3242		0.79		0.92		0.85	
CI13996	2	3237		0.78		0.88		0.78	
C082009	20	3143		0.98		0.95		0.90	
CI1442	1	2394		0.69		0.79			

Table 7. Summary of agronomic and yield da	data for 45 wheats		1988 500	ithern Regio	na] Perfor⊪	in the 1988 Southern Regional Performance Nursery.
VARIETY OR PEDIGREE	C.I. OR SEL. NO.	:ENTRY:	PLANT HE IGHT CM	: DAYS TO : : HEADING : : FROM 1/1:	DAYS TO: RIPENING: FROM 1/1:	CODGING:
Number	of Trials		56	21	2	m
TX714562_6*4/Amigo*4//largo	TXGH13622	13	11	134	182	21
TAM-105*4/Am1go*4//Largo	TXGH10563B	II;	77	132	181	12
HKW Selection Winter Uhest Hubsia	KGC-112 XH675	36 36	28	134	181	<u> </u>
KS73146/TX71A1039	TX84V1336	128	75	132	181	10
TAM W-101/W603//W558	XW161	33	88	131	178	0
7 -	TX87HAI	ტ წ	3 G	133	182 183	n ru
Winter wheat Line Winter Wheat Hybrid	XH685	9 kg	88	134	181	υu
0K79257/Century Sib/2/Chisholm	0K86215	တင်	25	132	180 180	∞ .
17/1A3/4-4/17/1A1039-1/1 TX69A330/11/6-3820	11.80-1251	† †	78	136	179	7 00
Payne*2/C0725052	0K84286	ശ	74	134	180	9
Payne/W78-069 pw/10/2002-1009/10004//Bolot 108/100	NA-W83-256 NFR2656	2 4	<u> </u>	135 137	187 181	7 5
Brute/3/rafixer=4/Agent//beiot.130/cd TAM-108/Ankan	TX86A7041	12	7.7	136	179	7
TX71A1039-V1*3/Amigo	TX81V6607-2	51.0	8;	134	181	11
Complex Pedigree 74ch462/Transpor///ona	NE834U/ C0830027	38	7 t	136	182	_* %
_	C0830034	22	83	137	182	lo
ection	AGC-113	33	79	137	182	18
TAM-105 02112531 (120, 1225	C11/826	n (0 F	134	180 188	~ ~
UKIIZOZA/W/W-1ZZO Winter Wheat line	RL845472	31	28	136	180	n 00
Sturdy*3/Amigo	TX81V6582-2	10	69	132	180	11
Payne*2/C0725052	0K84287	φ;	74	134	182	ស្ន
TAM-106 resel./TX69D4819	TX84V1736		8 7	132	185	7.7
Bulk Selection Rannava/NF701136//CI13449/C+k	K362U2338 TX86V1110	61 13	82	133	178	23
~ · · ·	NE84557	27	83	137	180	14
<u>- </u>	TX86V1109	81 c	22 62	133	181	2 ₂
bounty nybriu mieat Aurora/2*TAM W-101	0K84343	4	73	135	180) (~~ 1
Hawk/0K80099	0K86197	7	76	133	179	5e
W79-227/Payne	NA-W84-229	40	۲,	135	182	16
IL77-4259/IL76-3845	1L83-/439 MC02522	43 5	200	130	181	9.6
KS/31b//Agate//Sage S1b TAM W-101*4/Amino*4//Iardo	TXGH10989	g 01	£ £	134	182	28 29
Bounty Hybrid Wheat	Bounty-122	8	9/	134	183	ന
Bezostaya/TAM W-101//W558	XW141	44.	6 6	136	182 180	2 30
Scout oo Bsn/Strlng//3*Sut/3/Eag/4/Pinnacle/2*Eag	KS84HW196	24	74	133	186	212
74cb452/Vona//Baca 74cb452/Vona//Baca	C0830014	23	83 83	134	181 184	17
Kharkof	CI 1442	} ⊷	35	142	185	32

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VIELD KG/HA	26	3798 37598 365730 365730 365730 365730 36573 36573 36573 3757 3757 3757 3757 3
VOLUME WEIGHT KG/HL	52	24444444444444444444444444444444444444
: MILDEW	H	
BYD VIRUS 0-9	2	らててらてらるなうなららららららららったっちららららららららなってってらら
SEPTORIA: 0-9	1	てらてもとのものでしててものものでしてしょうのものものものものますのののしょう
LEAF RUST: SEVERITY:	5	28 11533 831 20 27 7 2 20 20 9 3 2 2 8 2 1 1 1 3 3 8 3 1 1 2 3 1 1 2 3 1 1 1 3 3 8 3 1 1 1 1 1 1 1 1 1 1 1 1
STRAW STRENGTH 1-5	; 4	ままとうまままままままままままなとととまままままままままままままままままままま
WINTER JURVIVAL %	m	888888886696645486748674868888888888888888888888888
: WINTER : ENTRY: SURVIVA : NO. : %	Trials	ELL882288 44 - 4221288 2228 832228 838333333333333333333
C.1. OR SEL. NO.	Number of	TXGH13622 TXGH105638 AGC-112 XH675 TX84V1336 XW161 TX84V1336 XW161 TX84X1317 ILR0-1251 OKR6215 TX84V1317 ILR0-1251 OKR6215 TX84V1317 TX81V6607-2 TX81V6607-2 TX81V6507-2 TX81V6507-2 TX81V6502-2 OKR3407 TX81V6502-2 TX81V6582-2 TX81V6582-2 TX81V6582-2 TX81V109 WH180001 OKR4243 TX86V1109 WH180001 OKR6197 TX86V1109 WH180001 OKR6197 TX86V1109 WH180001 OKR6197 TX86V1109 TX86V1109 WH180001 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX86V1109 OKR6197 TX80V1109 OKR6197 TX80V1109 OKR6197 TX80V1109 OKR6197 TX80V1109 OKR6197 TX80V1109 OKR6197 TX80V1109 OKR6197 TX80V1109 OKR6197 TX80V109 OKR6197 TX80V1109 TX80V1

of entries of the 1988 Southern Regional Parform

		int	of Puccinatory, U.	entries of the 1988 <u>Puccinia graminis</u> f. y, U. of MN, St. Pau	1988 Sou nis f.sp. Paul,	tritici (b MN).	nal Pert y D. V.	ormance N McVey, U.:	88 soutnern Regional Performance Nursery to f.sp. <u>tritici</u> (by D. V. McVey, U.S.D.A., A.R.S., Paul, MN).
		, ,	ł l	1 1	احا	by isolates			
			-69	71-	72-	72-	72-	74-	
			21-	21-	25-	-00	-10	21-	
		, 60	399	584B	639C	53A	4 A	1409A	
	ome N	4163	USHS	KHKS	KKŲS	R100	HMNL	TNMK	1
No.		15	51		11-32-113	8	15	15B-2	Spec. sr gene
₩.		Ø	s	S	s	s	S	5	none
7	Scout 66	v	v	Ø	Ŋ	111	u.) V	17
ო ,	TAM-105	32	2	23	23	23	S	· vı	Tme
4	0K84343	.1	2=	:1	ij	2=	5=	2=	31
ω	0K84286	 -	2=	 1	-;	2=	2	2-	+
Ō	0K84287	μ	2=		*-) 	٥	10	4
7	0K86197	~	, <u>"</u>	. C	, (C	2 = 2	,	. 100	\(\frac{1}{2}\)
α	OK8621E	•	ן נ	ן ל ן ל	1 -		۲-,,	, , _ ,	seg. b
) o	TXGHINGRO	7 c -c	- 2	- ² C	= -C	- - -	V (= 2	none
ר ב	TX81V6582-2	- 1 -	<u>-</u> 6	- 7 - 7	⊒ C	11 1	7 (= 2	Amigo
2	7 7000 1000	-1	- 7	-7	-7	-7	<u>'</u>	=7	Amlgo
11	TXGH10563B	2=	2-	2-	5=	2=	-2	2=	Amigo
12	TX84V1336	S	S	σ	Ø	S	v	ı v	9000
13	TXGH13622	2=	2=	2=	2=	:1- xcn) •·) = =	Amico Coa 17
14	TX84V1317	s	v	v	ı vı		r U	1 V	ž
15	TX81V6607-2	5=	2=	2=	2=	2=	2-	<u>5</u> =	Amigo
16	TX84V1736	s	s	S	v	:1-n	:1n	v	17
17	TX86A7041	 1	2=	5=	-1.	2=		; , 2-	6,24
<u></u>	1X86V1109	S	S	Ŋ	s	S	v	v	none
57	1X86V1110	S	S	s	s	S	v	S	none
50	C082009	}	2	5-	2-	16	••	2	17,+
21	C0830027	.,	23	-	•	n-1-		<i>u</i> >	11 17
22	C0830034		S	 	. 1	:	ψ-=- 	•	11 17
23	C0830014	• •	S	, 		\		, vi	11,17
24	KS84HW196	s	S	S	s	s	· vı	v	none
22	KS82C2338	. •	S	S	S	• •	s #	ر. :	6.17
						•	•		•

Table 8. Continued.

			Spec. sr gene	17,24 6,17,24 6,17,24 17,24 17,24 17,4 17,4 17,7mp 24 or 31 none 6,4 6,4 6,4 6,17 17 17
	74-	1409A TMMK	15B-2	23 23 23 23 23 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24
	72-	4A TNMH	15	22 x, x 32 32 32 32 32 32 32 32 32 32 32 32 32
hv isolates	72-	53A 0100		2 - 2 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
roduced	72-	639C	11-32-113	23 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Reaction r	71-	584B		22
ď	1	399 0586		3° 2' 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2°
	72-	1370C	151	5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
			Name or sel. no.	NE82533 NE84557 NE83407 NE82656 RL844677 RL845472 AGC-112 AGC-113 XW-141 XW-161
			No.	26 27 27 33 33 34 35 36 36

Table 9. Adult plant field reaction of entries of the 1988 Southern Regional Performance Nursery to <u>Puccinia graminis</u> f.sp. <u>tritici</u> (by D. V. McVey, U.S.D.A., A.R.S., Cereal Rust Laboratory, U. of MN, St. Paul, MN).

	Name or	Stem rust
No.	sel. no.	6/22
1 2 3 4 5	Kharkof Scout 66 TAM-105 OK84343 OK84286	TS TS 10S O TR
6 7 8 9 10	0K84287 0K86197 0K86215 TXGH10989 TX81V6582-2	TR TR TR TR TR
11 12 13 14 15	TXGH105638 TX84V1336 TXGH13622 TX84V1317 TX81V6607-2	TR TR TR 30S TR
16 17 18 19 20	TX84V1736 TX86A7041 TX86V1109 TX86V1110 C082009	10S TR 5MS-S 5MS-S TR
21 22 23 24 25	C0830027 C0830034 C0830014 KS84HW196 KS82C2338	TR TS TS TR TR
26 27 28 29	NE82533 NE84557 NE83407 NE82656 RL844677	TR TR TR O TMR
	RL845472 AGC-112 AGC-113 XW-141 XW-161	TMR TR TS TS 10S
	XH-675 XH-685 Bounty 122 WH180001 NA-W84-229	10S 20S 5MS-S 20S 0
	NA-W83-256 NA-W81-162W IL83-7439 IL80-1251 TX87HAI	0 0 TR 10S TR

Table 10. Hessian fly reaction, Great Plains biotype.
1988 Southern Regional Performance Nursery.
(Data provided by J. H. Hatchett, USDA-ARS,
Manhattan, KS.)

ENTRY	C.I. OR	REACTION	NO. OF	
NO.	SEL. NO.	TYPE	R	S
1	CI1442	\$		
2	CI13996			
3	CI17826	S S		
4	0K84343	Š		
5	0K84286	H	9	14
6	0K84287	Н	7	13
7	0K86197	Н	6	11
8	0K86215	S	U	- 1 1
9	TXGH10989			
10	TX81V6582-2	\$ 5 \$ \$		
11	TXGH10563B	ç		
		c		
12 13	TX84V1336 TXGH13622	s S		
13	TX84V1317	S		
		S		
15	TX81V6607-2 TX84V1736	s c		
16		\$ \$ \$ \$ \$		
17	TX86A7041	ې د		
18	TX86V1109	ა S		
19	TX86V1110		•	16
20	C082009	H	8	16
21	C0830027	S		
22	C0830034	S		
23	C0830014	S		
24	KS84HW196	S		
25	KS82C2338	\$	_	
26	NE82533	H	5	16
27	NE84557	H	8	13
28	* NE83407	H	5	17
29	NE82656	R		
30	RL844677	Н	7	20
31	RL845472	H	19	3
32	AGC-112	S		
33	AGC-113	S		
34	XW141	S		
35	XW161	Н	17	7
36	XH675	S		
37	XH685	S		
38	Bounty-122	S		
39	WH180001	S		
40	NA-W84-229	Н	5	21
41	NA-W83-256	S		
42	NA-W81-162-W	S		
43	IL83-7439	S		
44	IL80-1251	Н	10	13
45	TX87HA1	S		

Table 11. Virus reactions of entries in the 1988 Southern Regional Performance Nursery. (Data provided by A. D. Hewings and F. L. Kolb, Urbana, Illinois.)

					407100	
		:		:	SOILBO	
ENTRY	C.I. OR	:	DWARF	:	MOSA	IC :
NO.	SEL. NO.	;	0-9	:	0-9 Rep 1	
					Rep 1	Rep 2
1	CI1442		4		8	7
ż	CI13996		Ġ		Š	7 7
2 3	CI 17826		4		7	8
4	0K84343		3		7	6
5	0K84286		4		8	6
6	0K84287		4		Ř	7
7	0K86197		5		4	3
8	OK86215		7		8	8
9	TXGH10989		6		8	7
10	TX81V6582-2		4		8	7
11	TXGH10563B		6		8	7
12	TX84V1336		5		7	7 3 8 7 7 7 6 5 5 8 7 7 7
13	TXGH13622		4		6	5
14	TX84V1317		5		6	5
15	TX81V6607-2		4		8	8
16	TX84V1736		8		8	7
17	TX86A7041		5		6	7
18	TX86V1109		6		7	7
19	TX86V1110		5		8	7
20	C082009		5		8	8
21	C0830027		6		9	8
22	C0830034		8565566777766		8	6
23	C0830014		7		8	8
24	KS84HW196		7		7	8
25	KS82C2338		7		5 4 5 6 7 2 8	4
26	NE82533		6		4	3 5 7 6 4 7
27	NE84557		6		5	5
28	NE83407		4		6	7
29	NE82656		5		7	6
30	RL844677		4 5 6 7 6		2	4
31	RL845472		7		8	7
32	AGC-112		6		8	7
33	AGC-113		6		2	4
34	XW141		7		3	6
35	XW161		4		2	5
36	XH675		7		23266	6
37	XH685		4		b	6
38	Bounty-122		4		8	8
39	WH180001		b		6	6
40	NA-W84-229		b		5 4 3 3 7	5 4 3 3 7
41	NA-W83-256		0		4	4
42	NA-W81-162-W IL83-7439		/ e		.3 2	ა ე
43 44	1L83-7439 1L80-1251		0 6		ა 7	3 7
44 45	TX87HA1		6 6 7 6 6		5	5
40	LVOVUNT		Ų		ນ	ິນ

Table 12. Aluminum tolerance of lines tested in the 1988 SRPN based on hematoxylin staining of seedling roots. (Data provided by B.F. Carver, Stillwater, OK)

		Stain	Intensit	ya	
Entry No.	Selection No.	Al Conc 0.18	entration 0.36	(mM) 0.72	Rating ^b
1	Kharkof	С	С	С	VS
2	Scout 66	C	C	C	VS
3	TAM 105	C	C	C	VS
4	OK84343	P	P	C	I
5	OK84286	P	C	C	MS
6	OK84287	P	С	C	MS
7	OK86197	P	С	С	MS
8	OK86215	P	P	С	I
9	TXGH10989	P	P	С	I
10	TX81V6582-2	P	С	C	MS
11	TXGH10563B	C	С	C	VS
12	TX84V1336	N	P	P	T
13	TXGH13622	P/C/N	C/P	С	VS-I*
14	TX84V1317	N	P	P	T
1.5	TX81V6607-2	N	P	P	T
16	TX84V1736	P/C/N	P/C	P/C	VS-T*
17	TX86A7041	С	C	C	VS
18	TX86V1109	P	P	P	T
19	TX86V1110	N	P	P	T
20	C082009	P	C/P	C	MS-I*
21	C0830027	P	С	С	MS
22	C0830034	P	C/P	С	MS-I*
23	C0830014	P	C	С	MS
24	KS84HW196	C/P	C/P	C	VS-I*
25	KS82C23 3 8	P/C	C/P	C	VS-I*
26	NE82533	С	C	C	VS
27	NE84557	C/P	C	C	VS-MS*
28	NE83407	C	C	C	vs
29	NE82656	P	C	С	MS
30	RL844677	P	P/C	С	MS-I*
31	RL845472	C	С	C	VS
32	AGC-112	С	C	С	VS
33	AGC-113	P	C/P	С	MS-I*
34	XW141	N	N	P	T
35	XW161	N	N	P	T
36	XH675	P	С	С	MS
37	ХН685	P	C	С	MS
38	Bounty-122	N	N	P	${f T}$
39	WH180001	N	P	P	T
40	NA-W84-229	P	P	Ρ.	T
41	NA-W83-256	N/P	P/C	P ∖C	MS-T*
42	NA-W81-162-W	P	P	C	I
43	IL83-7439	N/P	P	C/P	T-T*
44	IL80-1251	N	P	P	T
45	TX87HA1	P	P	P	${f T}$

aC, P, and N = complete, partial, and no staining of root tips, respectively.

bVS = very susceptible, MS = moderately susceptible, T = intermediate and T = tolerant (\leq 0.72 mM Al); * = heterogeneous response; predominant stain intensity listed first for each Al concentration.

Northern Regional Performance Nursery

Entry No.	Variety or Pedigree	Sel. No.	Source
1**	Kharkof	CI1442	Check
2**	Roughrider	CI17439	11
3**	Colt	PI476975	11
4	CI15322//Agate/4*Scout 66/3/Ctk 78/4/SD74221	SD82144	So. Dakota
5 6 7	CI15322//3*(Agent/4*Scout66)	SD76463-16	11
6	SD74221*2/Lathrop	SD82114	II
7	SD76109/Rose	SD78207-4	II .
8	SD76669*2/KS71591	SD791231	U
9	Rrr//Yogo/Trapper	ND8212	No. Dakota
10	Rrr/3/Froid//Winoka/WW8	ND8215	li .
11	Rrr*2/1809	ND8286	l1
12	Ctk/3/Froid*2//ND363/ND269	ND8407	И
13*	Rrr/F0.1527	ND8460	II
14	Brule/3/Parker*4/Agent//Belot.198/Lcr	NE82656	Nebraska
15	HiPlains/Wings/3/Pkr*4/Agent//Belot.198/Lcr	NE82438	II.
16*	(FTN/MI/Hope)//Pnc/2*Cnn/3/Pnc/3*Cnn/4/		
	Pnc/2*Cnn//ILL#1-Cns-TTi (CTMH)/		
	Sando60/5/Vona/6/Wrr*5/Agent//Kavkaz	NE83432	II
17*	Bez 1/Ctk78//Arthur/Ctk78/3/Bennett	NE84581	II .
18	OK11252A/W76-1226 (Abilene)	NA-81-362-5	NAPB
19*	Winter Wheat Hybrid	XH947	HybriTech
20*	II II	XNH1354	u
21	Kharkov 22 MC/Bezostaya 1	WT176	Lethbridge
22	Norstar/Rrr	WT177	11
23	II .	WT179	11
24	Turkey/Burt//Bezostaya 1	ID0180	U
25*	Hg1/ID5006/4/II-60-156/CI14107//It/3/		
	2Cnn/PI178383	ID0301	Idaho
26	Lancota/Froid//NE69559/Wnk	MT8039	Montana

^{*} New Entry in 1988 ** New Seed Provided

TEST SITE INFORMATION - NRPN

Clovis, NM -- See information for SRPN.

Nebraska stations -- See information for SRPN.

Brookings, SD -- See information for SRPN.

Presho, SD -- See information for SRPN.

Highmore, SD -- Seeded on 9/9/87 into fallowed land with good moisture. A mild winter allowed for 100% survival. April, May, June, and July were extremely hot and dry. Leaf rust was present at 10 to 20% severity on susceptible cultivars. WSMV was present and notes were taken on general plant appearance. Harvested on 7/11/88.

Casselton, ND -- The nursery was planted on 9/9/87. Some winterkill was recorded due to cold temperatures and uneven snow cover. Dry conditions were experienced from planting through harvest with less than 40% of normal precipitation received from April through July.

Carrington, ND -- The nursery was planted on 9/4/87 into standing small grain stubble. Along with some winterkill, there was severe drought during the growing season. The average yield at this location was 6 bu/a.

Williston, ND -- All varieties had 100% fall stand establishment and no winterkill. There were no disease, weed, or insect problems. The drought severely affected yields. There were 21 days in June with maximum daily temperatures 90 degrees or above. Two inches of the total June rainfall of 3.02 inches was received on June 30 and did very little to enhance grain production. June was the only month in which rains of greater than 0.33 inches occurred.

Rosemount, MN -- Planted on 9/9/87 and harvested 7/8/88. Plots were variable due to severe drought and heat and a spotty fall infection of BYDV. There was no winterkill. Heat pushed grain fill very fast and little moisture was available in June (0.22 inches). Temperatures were near or over record highs on many days with relatively low humidity. No other diseases were noted.

Waseca, MN \rightarrow Planted on 9/8/87 and harvested 7/6/88. There was less BYDV infection than at Rosemount and it was scattered and not severe. More precipitation was received but temperatures were just as severe when compared to Rosemount.

Sheridan, WY -- The nursery was seeded into a tilled seed bed and no fertilizer was applied. The soft ground resulted in sliding of the wheel driving the seed distributor. An inadequate stand resulted in three plots. Below normal precipitation dramatically affected yields. No insect or disease problems were noted.

Archer, WY -- The nursery was planted into a no-till chemical fallow area with a no-till plot drill. Fertilizer at 40-20-0 lbs/a rate was deep band applied at planting time. Very little moisture was received throughout the fall which affected emergence and stand establishment. The moisture received throughout the spring and summer was above average and timely. Temperatures were above normal beginning in early June and remained high until harvest. There was no insect or disease damage to the nursery. The Russian wheat aphid, which caused extensive damage the previous year, was not a problem.

Moccasin, MT -- All entries survived the winter with excellent stands. Cool moist conditions during April and the first two weeks of May produced succulent growth. Drought stress from May 15 through June 15 with high temperatures and strong south winds significantly reduced yields. Powdery mildew was the only disease or insect problem observed this year. Russian wheat aphids and green bugs arrived too late to affect small grain yields.

Sidney, MT — Diseases and insects were not a problem. There was good soil moisture to a depth of 18 inches at planting time, resulting in good emergence and stand establishment. Winter survival was excellent. Persistent hot, dry, and windy conditions throughout the spring and summer growing periods reduced tillering, plant height, and yields drastically. Protein levels of harvested grain were very high due to the drought. Maturity was 2-3 weeks ahead of normal. A total of 6.18 inches of precipitation was received during the growing season compared to the long term average of 13.53 inches.

Bozeman, MT -- No information.

Idaho stations -- See information for SRPN.

Lind, WA -- See information for SRPN.

Table 13. Yield and agronomic data for entries in the 1988 Northern Regional Performance Nursery.

CLOVIS (IRR.)

NEW MEXICO

THREE REPLICATIONS

C.I. OR SEL. NO.	: : :ENTRY: : NO. :	YIELD KG/HA	: VOLUME : WEIGHT : KG/HL	:	PLANT HEIGHT CM		:LEAF RUST: :SEV.:RESP:
JEL. NO.	: NO. :	ки/па	: KG/HL	-	CIVI	: FRUM 1/1	: % : 0-9:
MT8039	26	4643	65.3		90	134	30
XNH1354	20	4641	67.5		81	139	27
XH947	19	4528	65.6		80	137	9
SD82114		4510	67.9		92	137	10
P1476975	6 3	4439	67.3		72	137	27
NE83432	16	4125	68.1		77	139	11
NA-81-362-5	18	4114	69.2		74	137	
NE82656	14	3990	66.5		78	137	9 7
ID0301	25	3927	64.6		89	144	20
NE82438	15	3784	66.5		79	139	13
SD82144	4	3761	64.5		86	138	15
SD76463-16	5	3480	67.9		94	140	8
ND8286	11	3447	67.9		91	141	15
NE84581	17	3393	68.2		80	142	1
ND8215	10	3363	71.4		98	143	1 5 5
ND8407	12	3207	66.9		96	139	
ND8212	9 2	3127	69		93	144	27
CI17439	2	2800	68.8		91	144	17
SD791231	8	2685	69.9		87	139	4
ID0180	24	2653	64.5		88	145	14
SD78207-4	7	2488	68.5		94	144	4
WT176	21	2449	68.7		98	144	8
WT179	23	2386	67		97	145	10
CI1442	1	2317	69.7		102	144	10
WT177	22	2110	69.8		98	144	12
ND8460	13	1845	69.1		97	144	2
MEAN LSD(.05) C.V.	ere en	3393 930 16.7					

CLOVIS (DRYL.)

NEW MEXICO

THREE REPLICATIONS

	: :	YIELD	-:	VOLUME	:	PLANT	:		:LEAF RUST:
C.I. OR	:ENTRY:		:	WEIGHT	:	HEIGHT	:	HEADING	:SEV.:RESP:
SEL. NO.	: NO. :	KG/HA	:	KG/HL	:	CM	<u>:</u>	FROM 1/	1: % : 0-9:
NE84581	17	2276		64.4		63		134	1
100301	25	2216		68.4		60		137	9
SD82114	6	2121		66.4		59		134	1
XNH1354	20	2088		66.6		59		137	18
XH947	19	2060		65.9		54		134	7
ND8215	10	2023		62.8		66		138	1
SD76463-16	5	1893		66.7		61		134	2
NE82656	14	1874		65.6		62		134	2
CI1442	1	1850		64.3		76		137	
PI476975	3	1745		67.3		56		134	
NA-81-362-5	18	1735		72.2		55		134	5 1
ND8286	11	1709		64.1		63		137	2
ND8212	9	1688		61.6		65		138	17
SD78207-4	7	1635		62.7		61		137	2
NE83432	16	1621		66.4		55		137	2 2
CI17439	2	1554		63.8		63		137	4
SD82144	4	1548		64.5		60		134	2
ND8407	12	1465		64.7		65		137	2
MT8039	26	1446		59.4		63		134	10
WT176	21	1426		62.2		62		144	4
ID0180	24	1419		59.9		57		144	14
SD791231	8	1376		63.4		64		136	5
NE82438	15	1300		59.6		54		137	
ND8460	13	1298		62.5		68		137	2
WT179	23	1237		63.6		65		144	1 2 2 2
WT177	22	963		63.1		59		144	2
MEAN		1676	*****	···				***************************************	

MEAN 1676 LSD(.05) N.S. C.V. 27.5

LINCOLN
NEBRASKA
THREE REPLICATIONS

	: :	YIELD	: VOLUME	:	PLANT		EAF RUST:
C.I. OR	:ENTRY:		: WEIGHT	:	HEIGHT	: HEADING :S	
SEL. NO.	: NO.:	KG/HA	: KG/HL	<u>:</u>	CM	: FROM 1/1:	<u>%:0-9:</u>
NA-81-362-5	18	4282	81.1		72	138	8
XH947	19	3867	77.8		80	138	8
NE83432	16	3728	77.5		80	141	3
NE84581	17	3596	78.3		80	142	5
NE82656	14	3374	78.7		80	139	8 3 5 2 8 7
PI476975	3	3356	78.8		70	138	8
SD82114	6	3347	81.5		91	139	7
SD82114 SD82144	4	3302	82.4		93	139	8
SD76463-16	4 5	3297	78.4		91	140	8
ND8215	10	3266	76.1		96	143	8
NE82438	15	3241	78.4		78	139	8
XNH1354	20	3232	75.7		78	140	8
MT8039	26	3141	76.6		86	139	8
ND8407	12	3089	78.7		96	141	5
SD791231	8	2955	80.1		84	140	2
SD78207-4	7	2930	79.2		86	141	2
ND8460	13	2878	79.6		97	143	8
ND8286	11	2867	76.6		87	142	8
CI1442	$\overline{1}^-$	2573	79.5		94	141	5
CI17439	2	2486	77.3		92	144	8
WT179	23	2441	77		90	144	7
ID0180	24	2345	78.6		75	142	5
WT176	21	2291	77.8		91	144	2
ID0301	25	2262	76.1		75	141	7
ND8212	9	2235	73.8		88	142	888885228858752788
WT177	22	2215	77.5		91	143	8
MEAN		3023					
100/ 05)		400					

MEAN 3023 LSD(.05) 489 C.V. 9.9

NORTH PLATTE

NEBRASKA

THREE REPLICATIONS

	: :	YIELD	: VOLUME	:
C.I. OR	ENTRY	11660	: WEIGHT	:
SEL. NO.	: NO. :	KG/HA	: KG/HL	:
			1 1(4)112	
NE84581	17	2873	69.3	
NE82656	14	2798	67	
XH947	19	2675	62.7	
SD76463-16	5	2496	67.1	
NA-81-362-5	18	2486	67.2	
SD78207-4	7	2443	70.7	
SD82114	6	2428	69	
MT8039	26	2369	66.4	
ND8460	13	2307	69.4	
NE82438	15	2255	64	
SD791231	8	2232	67.6	
CI17439	2	2208	68.1	
ND8286	11	2184	65.3	
SD82144	4	2158	68.1	
ND8407	12	2118	65.4	
XNH1354	20	2095	64.1	
NE83432	16	2085	65.8	
CI1442	1	2066	68.9	
ND8212	9 3	2059	64	
PI476975	3	1973	64	
WT177	22	1961	68.9	
ND8215	10	1827	60.9	
WT176	21	1788	63.7	
WT179	23	1723	67.1	
ID0301	25	1705	63.5	
ID0180	24	1671	64	
MEAN			· · · · · · · · · · · · · · · · · · ·	
MEAN		2192		
LSD(.05)		403		
C.V.		11.2		

ALLIANCE NEBRASKA THREE REPLICATIONS

C.I. OR	ENTRY:	YIELD	: VOLUME : : WEIGHT :
SEL. NO.	: NO. :	KG/HA	: KG/HL :
C.I. OR SEL. NO. NA-81-362-5 NE83432 XNH1354 NE82438 XH947 MT8039 ID0301 CI17439 NE84581 SD791231 NE82656 ND8212 ND8215 WT176 ID0180 ND8286 ND8215 WT176 ID0180 ND8286 ND8407 SD82144 PI476975 SD82114 SD76463-16 SD78207-4 WT177	:ENTRY: : NO.: 18 16 20 15 19 26 25 2 17 8 14 9 10 21 24 11 12 4 3 6 5 7 22	KG/HA 4364 4163 4002 3982 3977 3948 3827 3773 3682 3600 3588 3472 3412 3353 3341 3339 3335 3082 3057 3055 3026	: WEIGHT : KG/HL : Y7.4
W1177 ND8460 C11442 WT179	13 1 23	2999 2961 2863	77.4

MEAN LSD(.05) C.V.

BROOKINGS

S. DAKOTA

THREE REPLICATIONS

C.I. OR	ENTRY:	YIELD YIELD	:	VOLUME WEIGHT	:	- PLANT HEIGHT	:	DAYS TO: HEADING: FROM 1/1:
SEL. NO. NA-81-362-5 NE82438 SD76598-7 SD76463-4 NE83432 ND8407 SD76463-16 NE84581 NE82656 WT177 ND8215 P1476975 ROSE SD82102 XH947 SD82114 SD82144 ND8286 CI17439 XNH1354 WT179 CI1442 ND8460 SD78207-4	: NO.: 18 15 28 29 16 12 5 17 14 22 10 3 30 27 19 6 4 11 2 20 23 1 13 7	KG/HA 2836 2526 2508 2397 2307 2293 2282 2275 2180 2137 2119 2106 2075 2054 2044 2042 1951 1925 1865 1853 1750 1717 1679 1678	•	79.5 78.2 77.5 78.8 78.2 77.1 76.4 77.3 74.9 69.3 76.2 75.1 75.5 74.8 73.1 76.4 72.9 75.9 71.5 75.1 77.9		63 65 69 74 69 71 78 68 80 71 62 69 72 61 72 73 69 78 67 78 67	==	150 151 150 151 150 152 151 150 151 153 152 150 151 150 151 150 151 152 150 151 152 152 152 152 152 154 153 154 153
SD791231 ND8212 MT8039 WT176 ID0180 ID0301	8 9 26 21 24 25	1662 1657 1617 1558 1244 864		77.1 54 73.3 70 60.4 62		63 77 69 75 69 69		153 153 151 154 155 155
MEAN LSD(.05) C.V.		1973 641 19.9						

PRESHO
S. DAKOTA
THREE REPLICATIONS

	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO:	GENERAL	:
C.I. OR	:ENTRY:		:	WEIGHT	:	HEIGHT	:	HEADING:	DISEASE	:
SEL. NO.	: NO. :	KG/HA	:	KG/HL	<u>:</u>	CM	÷	FROM 1/1:	0-3	<u>:</u>
NE82656	14	1996		66.8		63		150	2	
NE83432	16	1920		67.7		57		150	2	
SD76463-4	29	1791		68		64		151	2	
NE84581	17	1786		63.7		54		151	2	
XNH1354	20	1755		67.8		5 9		151	2	
NA-81-362-5	18	1730		70		53		149	2	
SD82102	27	1572		64.4		62		151	2	
MT8039	26	1563		61.8		64		150	2	
ID0301	25 25	1558		65.8		62		152	2	
SD76463-16	5	1539		67.7		66		150	2	
NE82438	15	1539		63.1		54		151	2	
XH947	19	1537		64.8		60		150	2	
WT176	21	1532		66.2		67		154	2	
PI476975	3	1450		66.6		58		151	2	
ND8407	12	1424		64.4		64		151	2	
SD76598-7	28	1377		63.7		62		151	2	
SD791231	8	1332		66.8		63		151	2	
CI1442	ĩ	1316		67.5		73		154	2	
ROSE	30	1295		63.3		65		152	2	
SD82144	4	1253		65.7		63		150	2	
SD82114	6	1239		64		60		151	3	
ND8212	9	1168		61.5		61		154	3	
ND8215	10	1115		56.2		68		154	2	
SD78207-4	7	1037		62.8		54		151	3	
ND8286	11	1006		62.4		58		154	3	
WT179	23	976		63.3		58		155	2	
ID0180	24	911		61.1		54		156	2	
ND8460	13	878		63.8		69		154	2222222222222222222332332233233	
WT177	22	835		63.3		62		155	2	
CI17439	2	661		61.7		63		154	3	
								······································		

MEAN 1370 LSD(.05) 456 C.V. 20.4

HIGHMORE

S. DAKOTA

THREE REPLICATIONS

		YIELD		VOLUME	:	PLANT	<u>:</u>	DAYS TO :	GENERAL	:
C.I. OR	:ENTRY:	IICLD	•	WEIGHT	:	HEIGHT	:	HEADING:	DISEASE	
SEL. NO.	: NO. :	KG/HA	:	KG/HL	:	CM	:	FROM 1/1:	0-3	:
200 HO.	1 110. 1	KG/IIA	-	NU/IIL	_•	<u> </u>		I NOM I/II	0-3	-
NA-81-362-5	18	2623		73.7		62		150	2	
NE82656	14	2588		70.2		69		150	2	
NE83432	16	2354		71.5		64		151	2	
NE84581	17	2296		69.1		69		151	3	
SD76463-4	29	2250		72.4		76		151	3	
SD76598-7	28	2247		70.2		74		151	ž	
SD76463-16	5	2190		72.2		76		152	ž	
NE82438	15	2189		69.3		69		151	2	
XH947	19	2004		69.7		64		151	2	
SD82114	6	1959		70.2		74		152	2	
SD82102	27	1901		67.3		69		152	3	
MT8039	26	1806		65.5		73		152	2	
ND8407	12	1759		68.2		83		154	3	
PI476975	3	1752		69.8		64		151	2	
SD82144	4	1728		69.8		72		151	3	
ROSE	30	1714		67.7		64		152	٠ ن	
ND8286	11	1669		66.9		71		152	ა ე	
XNH1354	20	1665		67.3		69		152	S o	
SD791231	8	1657		70.4		75		153	S D	
ND8460	13	1533		67.3		81		153	2	
ND8215	10	1522		62.9		79		154 156	3	
CI1442	1	1465		70.2		83		156	2	
ND8212	9	1396		63.7		77		155	ა ე	
SD78207-4	7	1351		68.4		68			3	
ID0301	25	1210		65.7		72		152	3	
CI17439	2	1121		67.3		69		153	3	
WT179	23	1105		66.8				156	3	
ID0180	24	1090		63.8		69		156	222333223232323333232333333333333333333	
WT176	21	1074		64		68 70		155	3	
WT177	22	855		66.9		78		154	2	
		000		00.9		65		156	3	
MEAN		1700								-
100/ 00/		1736								

MEAN LSD(.05) C.V.

CASSELTON

N. DAKOTA

THREE REPLICATIONS

		YIELD	;		:	PLANT			: WINTER	:
C.I. OR	:ENTRY:		:	WEIGHT	:				:SURVIVAL	:
SEL. NO.	: NO.:	KG/HA	:	KG/HL	:	CM	:_	FROM 1/	1: %	
NE82438	15	1806		78.3		59		156	85	
ND8212	9	1740		75.2		71		158	95	
WT177	22	1691		74.4		73		159	65	
ND8286	11	1689		78.3		73 71		158	97	
XNH1354	20	1675		78.4		62		157	73	
CI 17439	2	1622		77.8		68		158	97	
ND8407	12	1563		77.5		64		158	87	
PI476975	3	1503		76.6		49		156	63	
SD82144	3 4	1502		76.0		68		156	90	
ND8215	10	1497		74.7		69		160	68	
	13	1486		74.7 78.7		66		159	77	
ND8460		1409				59		155	80	
NE83432	16 14	1388		77.5 77.8		65		155 155	80	
NE82656						60		156	73	
SD82114	6 7	1300		78.3		67			73 85	
SD78207-4		1295		77.5		86		157	92	
NORSTAR	29	1231		77.8				162		
NE84581	17	1212		75.7		53		156	60 60	
SEWARD	28	1192		76.8		70		159	60 63	
SD76463-16	5	1122		75.5		66 65		157	63	
SD791231	8	1107		77.8		65 61		158	80	
XH696	27	1106		76.4		61		157	40	
WT179	23	1068		73.8		67		161	65 60	
CI1442	1	1056		76.4		73		160	58	
NA-81-362-5	18	1025		80.5		51		156	37	
NORWIN .	30	1022		76.6		60		159	62	
WT176	21	921		76		72		161	55 22	
ID0180	24	645		75.7		58		162	33	
ID0301	25	554		73.7		55 65		161	30	
MT8039	26	400		71.3		65		160	17	
XH947	19	381		75.1		66		157	18	
MEAN		1240								

MEAN 1240 LSD(.05) 642 C.V. 31.7

CARRINGTON

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY:	YIELD KG/HA	: VOLUME : WEIGHT : KG/HL	:	PLANT HEIGHT CM	: DAYS TO : : HEADING : : FROM 1/1:	
NE82438 ID0180 ND8286 WT179 CI1442 NE83432 ND8215 NE82656 WT176 WT177 XH696 MT8039 SD76463-16 ND8212 NE84581 ND8407 ID0301 CI17439 NORSTAR SEWARD	15 24 11 23 1 16 10 14 21 22 27 26 5 9 17 12 25 29 28 19 7 6 20 30	884 836 823 800 794 728 719 674 663 641 632 583 569 569 569 569 569 569 569 569 569 569	71.9 71.9 69.7 69.7 74.4 71.3 67.7 72.4 70.3 68.6 73.1 73.9 71.5 70.2 71.5 72.6 76.5 72.8 71.7 73.9 75.3 73.7 74.2 73.1 73.8		44 44 50 45 45 45 45 45 47 44 46 47 43 44 40 43 43 43 44 40 43 43 43 43 43 44 45 45 46 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	156 160 158 157 156 158 158 158 158 158 158 158 159 160 157 156 157 160 157	100 98 100 100 93 93 100 98 98 100 95 93 88 93 98 100 78 100 97 97 88 98 98 95 88 95 88 95 88 95 88 98 98

WILLISTON

N. DAKOTA

FOUR REPLICATIONS

	: :	YIELD	: VOLUME	: PLANT	: DAYS TO :
C.I. OR	:ENTRY:		: WEIGHT	: HEIGHT	
SEL. NO.	: NO. :	KG/HA	: KG/HL	: CM	: FROM 1/1:
NA 01 262 E	10	770	67.0	40	147
NA-81-362-5	18 17	778 720	67.9	40	
NE84581		730	67.3		148
SD76463-16	5	718	68.6	46	147
NE83432	16	678	70.3	43	148
PI476975	3	666	69.1	42	147
ID0301	25	636	72.8	41	151
XNH1354	20	629	71.3	46	148
SD82114	6	620	68.6	45	148
NE82656	14	620	68.2	44	147
NE82438	15	619	70	37	149
SD791231	8	602	70.4	41	149
ND8286	11	602	69.7	45	151
ND8460	13	558	67.9	47	150
ID0180	24	555	69.1	43	151
XH947	19	543	67.6	45	147
SD78207-4	7	536	71	41	150
ND8215	10	536	63.5	48	151
ND8212	9	535	65	45	151
ND8407	12	530	65	47	150
CI17439	2	523	68.1	49	151
SD82144	4	518	70.7	43	148
CI1442	1	484	69.8	48	151
MT8039	26	483	68.6	43	148
AGASSIZ	28	474	68.8	46	152
WT179	23	440	68.8	42	153
WT176	21	410	72.6	46	152
WT177	22	409	68.4	44	152
NORSTAR	27	341	70	45	154
MEAN	·····	563 57			

LSD(.05) C.V.

ROSEMOUNT MINNESOTA

THREE REPLICATIONS

	: :	YIELD	: VOLUME		LANT		DAYS TO:	LODGING	:	BYD	
C.I. OR	:ENTRY:		: WEIGHT	: h	EIGHT		HEADING:		:	VIRUS	
SEL. NO.	: NO. :	KG/HA	: KG/HL	<u>:</u>	СМ	<u>:</u>	FROM 1/1:	0-9	:	0-9	_
MT8039	26	2661	71		88		150	0		2	
SD82114	6	2130	73.5		88		150	0		2	
NE84581	17	2116	74.2		85		152	0		2	
PI476975	3	2087	71		73		149	0		2	
CI17439	2	2065	77.4		99		153	0		1	
NA-81-362-5	18	1995	72.9		74		149	0		2	
NE83432	16	1977	72.9		81		151	1		4	
ND8286	11	1964	74.8		94		154	0		1	
SD76463-16	5	1948	76.1		97		151	0		2	
NE82438	15	1948	68.4		83		153	0		2	
SD78207-4	7	1946	72.9		89		152	0		3	
ND8212	9	1890	68.4		95		154	0		2	
XNH1354	20	1825	72.2		81		153	0		6	
SD791231	8	1787	74.2		92		151	0		4	
ND8215	10	1784	67.7		99		154	0		2	
NE82656	14	1737	68.4		86		150	0		3	
CI1442	1	1618	74.2		92		153	0		3	
SD82144	4	1616	71		93		149	0		2	
ID0301	25	1556	72.2		68		154	0		7	
WT177	22	1515	74.8		94		154	0		2	
ID0180	24	1509	71.6		83		155	0		3	
ND8407	12	1417	71		93		153	4		1	
XH947	19	1365	67.7		86		150	0	•	2	
WT179	23	1309	72.2		89		155	0		2	
ND8460	13	1302	72.2		97		153	0		2	
WT176	21	1197	67.7		90		156	0		2	
MEAN		1779								-	-
ICD/ OE)		N C									

MEAN 1779 LSD(.05) N.S. C.V. 30.3

WASECA
MINNESOTA
THREE REPLICATIONS

0 7 00	: :	YIELD	: VOLUME	: PLANT	: DAYS TO :
C.I. OR	:ENTRY:		: WEIGHT	: HEIGHT	
SEL. NO.	: NO. :	KG/HA	: KG/HL	: CM	: FROM 1/1:
NE83432	16	2846	80	58	154
ND8407	12	2740	78	74	155
SD82114	6	2718	79.3	64	154
ND8212	9	2604	77.4	73	155
NA-81-362-5	18	2581	80.6	64	153
ND8215	10	2568	76.1	73	155
NE84581	17	2435	78.7	63	155
WT179	23	2344	77.4	75	155
SD76463-16	5	2258	80	72	153
WT177	22	2252	79.3	71	154
NE82438	15	2231	78.7	63	154
SD78207-4	7	2179	80.6	67	154
ID0180	24	2101	76.1	63	157
CI17439	2	2060	79.3	75	154
ND8286	11	1974	78.7	69	156
MT8039	26	1939	76.1	64	155
WT176	21	1842	75.5	70	156
CI1442	1	1822	79.3	75	153
XNH1354	20	1769	78.7	53	154
SD791231	8	1751	78.7	60	153
NE82656	14	1712	77.4	62	153
ND8460	13	1704	79.3	69	154
SD82144	4	1695	78	65	153
XH947	19	1692	76.1	56	156
PI476975	3	1328	78.7	49	154
ID0301	25	1275	78.7	58	156
MFAN	· · · · · · · · · · · · · · · · · · ·	2093			

MEAN 2093 LSD(.05) 574 C.V. 16.7

SHERIDAN
WYOMING
THREE REPLICATIONS

	<u> </u>	YIELD	:	VOLUME	:	PLANT	-	DAYS TO :
C.I. OR	:ENTRY:		:	WEIGHT		HEIGHT	:	HEADING:
SEL. NO.	: NO. :	KG/HA	:	KG/HL	:	CM	:	FROM 1/1:
NA-81-362-5	18	2009		76.3		62		150
NE83432	16	1988		75.6		69		151
SD82144	4	1932		72.5		80		151
NE82656	14	1849		74.2		69		150
PI476975	3	1818		75.4		64		150
XNH1354	20	1757		74.6		69		152
ID0180	24	1751		72.9		73		155
SD78207-4	7	1719		75.8		66		153
ID0301	25	1706		73.4		63		153
MT8039	26	1701		69.5		75		153
ND8407	12	1648		72.8		86		153
SD76463-16	5	1641		74.3		79		151
NE84581	17	1598		73.9		73		152
NE82438	15	1549		73.2		65		153
WT176	21	1473		70.6		73		152
CI17439	2	1464		73.1		7 7		153
ND8212	2 9 1	1448		71.3		78		154
CI1442		1426		75.1		77		153
ND8286	11	1336		71.8		72		153
ND8215	10	1302		70.6		75		155
SD82114	6	1251		73.7		69		151
ND8460	13	1219		74.7		79		154
WT179	23	1186		72.5		68		155
WT177	22	1103		73.4		70		155
XH947	19	1045		71.2		67		150
SD791231	8	1036		73		78		153
MEAN		1507		,, , , , , , , , , , , , , , , , , , ,				<u></u>
MEAN .		1537						

MEAN 1537 LSD(.05) 566 C.V. 22.5

ARCHER WYOMING THREE REPLICATIONS

		YIELD	: VOLUME	: PLANT	: DAYS TO :
C.I. OR	:ENTRY:		: WEIGHT	: HEIGHT	
SEL. NO.	: NO.:	KG/HA	: KG/HL	: CM	: FROM 1/1:
XNH1354	20	1950	75.1	52	161
XH947	19	1930	73.2	54	159
PI476975	3	1861	74.6	53	159
NE84581	1 7	1809	75.7	53	160
SD82144	4	1775	74.9	55	160
MT8039	26	1771	73.1	54	161
SD76463-16	5	1766	76.4	56	160
CI1442	1	1704	76.4	60	163
ND8286	11	1 681	74.4	57	164
SD82114	6	1605	75.4	53	161
NE82656	14	1596	74.6	64	160
NE82438	15	1578	74.9	51	163
CI17439	2	1574	74.9	61	163
NE83432	16	1565	76.2	52	161
SD791231	8	1527	74.6	58	163
NA-81-362-5	18	1527	76.8	49	160
ND8407	12	1511	72.6	58 57	164
ID0180	24	1491	73.4	57 52	164 166
ND8212	9	1441 1428	72.4 75.5	52 51	164
ID0301 ND8460	25 13	1296	75.3 75.4	58	164
SD78207-4	13 7	1199	75 . 9	56	163
WT179	23	1199	73.1	56	166
WT177	22	1175	74	56	165
WT176	21	1128	72.5	55	163
ND8215	10	1098	71.5	58	166
MEAN		1546			
LSD(.05)		422			
C.V.		16.6			

16.6 C.V.

MOCCASIN

MONTANA

THREE REPLICATIONS

	: :	YIELD	:	VOLUME	:	PLANT	: DAYS TO :	LODGING	-
C.I. OR	:ENTRY:		:	WEIGHT	:	HEIGHT	: HEADING :		:
SEL. NO.	: NO.:	KG/HA	:	KG/HL	:	CM	: FROM 1/1:	0-5	<u>:</u>
XNH1354	20	2831		76.9		74	158	٥	
NE82656	14	2809		74.7		76	157	0 1	
MT8039	26	2791		71.5		82	156	ō	
NE84581	17	2726		76.5		79	158	1	
ID0180	24	2712		76.2		76	161	1 1	
ID0301	25	2690		76.5		70	160	ō	
NE82438	15	2549		76.6		83	158	ň	
NA-81-362-5	18	2396		76.9		75	156	1	
SD76463-16	-	2392		78.5 78		73 79	157	Τ	
PI476975	3	2336		74.3		63	155	1	
SD82114	5 3 6	2311		74.3 74		78	156	3	
ND8212	9	2293		76.2		76 74	161	0 1 3 1 3 2	
ND8286	11	2291		78.2 78		7 4 78	161	1	
NE83432	16	2271		77.4		70	158	i	
XH947	19	2271		73.9		75 75	156	1	
SD82144	4	2174		76		74	157	1	
CI17439	2	2085		79.5		82	159	5	
WT179	23	2078		78.2		86	161	1	
WT177	22	2069		79.3		82	161	1	
ND8215	10	2067		76.4		81	160	1	
SD78207-4	7	2047		79.6		75	160	2	
ND8407	12	2047		74.4		81	160	2	
CI1442	1	1991		79.6		86	161	2 .	
SD791231	8	1903		79.0 78		83	157	1 2 1 1 2 2 2 3	
WT176	21	1849		76 76		85	161	<u>د</u> ۱	
ND8460	13	1562		79.9		84	161	4 1	
	17	1302		, , , ,		V7	101		
MEAN (SE)		2290							

MEAN 2290 LSD(.05) 427 C.V. 11.4

SIDNEY

MONTANA

FOUR REPLICATIONS

C.I. OR	ENTRY:	YIELD	: VOLUME : WEIGHT	: PLANT : HEIGH	IT : HEADING :
SEL. NO.	: NO. :	KG/HA	: KG/HL	: CM	: FROM 1/1:
NA-81-362-5	18	767	77.1	33	145
NE82656	14	763	75.2	37	146
ID0301	25	748	77	37	150
NE82438	15	736	74.7	33	148
SD76463-16	5	725	75.9	41	146
PI476975	3	723	74.6	39	145
ID0180	24	711	74.4	34	152
ND8286	11	706	72.8	38	150
SD82144	4	704	75.2	40	146
XNH1354	20	704	77	36	148
CI17439	2	681	71.8	39	150
ND8215	10	681	68.4	40	151
ND8460	13 16	679 673	7 4. 7 7 6. 8	42 35	149 147
NE83432 ND8407	12	671	71.2	39	147
NE84581	17	671	75.9	29	147
WT177	22	666	71.5	39	152
WT179	23	666	71.5	37	152
CI1442	1	662	74.4	38	150
MT8039	26	627	73.6	37	148
ND8212		622	69	37	150
SD78207-4	9 7	607	75	34	148
WT176	21	583	67.1	40	153
SD82114	6	577	74.3	36	146
SD791231	8	57 5	76.1	36	147
XH947	19	562	73.9	33	147
MEAN		673			
LSD(.05)		N.S.			

MEAN LSD(.05) C.V. 673 N.S. 16.5

BOZEMAN, MONTANA - FOUR REPLICATIONS

	•	VE	- VOL 1846	TNA 1G	TO TOWAR TO	7	NSTS.	10110	EDI TNG	THE STATE OF THE SEED ING SEEDI ING	FEDI TNG .
40 I J	· FNTRY:	ווירה	WEIGHT	#16H	. HFADING		: SEV. :	XESP:	COLOR*	HABIT**:	WIDTH***:
SEL. NO.	S.	KG/HA	: KG/HL		,	0-5	. 8 : 0-9:	0-9:	1-5	1-5 : 1-5	1-5 :
			Į .	! 				! !			
NE83432	16	4408	72.8	95		- -1	9	S	m	3	m
P1476975	m	4170	76.8	91		0	, 1	e-1	2.5	m	က
NE82438	15	4049	77	92		0	C)	- 1	3.5	m	3.5
100180	24	3866	78.6	10		0	6	∞	9	ю	ო
XNH1354	23	3778	74.6	96	166	Ф	06	∞	m	ო	м
NA-81-362-5	18	3743	77.7	94		0	20	5	3.5	ю	м
100301	25	3669	72.2	91		-	06	89	2.5	m	т
ND8286	11	3648	80.1	112		0	10	m	3.5	3.5	3.5
SD76463-16	r.	3614	76.9	10		 1	20	ထ	3.5	3.5	m
MT8039	56	3447	75	10		0	10	2	m	က	m
SD82114	9	3426	79.9	98		0	10	m	2.7	ĸ	m
ND8407	12	3393	79.5	11(,	2	-	m	m	m
NE84581	17	3380	80.2	98		_	2	 4	ო	3.5	3.5
ND8460	13	3337	80.4	100		0	10	2	က	m	m
NE82656	14	3321	74	10		0	'n	2	2.5	m	m
WT179	23	3288	78.7	102	168		10	m	4	3.5	4
ND8215	10	3183	79.3	11,		0	S.		m	3.5	ĸ
WT176	21	3151	9/	10.		0	06	89	m	က	m
ND8212	თ	3135	79.3	10.		0	—	—	3.5	m	m
SD82144	4	3131	75.9	86		0	-4	 1	ო	m	m
SD78207-4	7	2864	78.4	108		0	20	ო	3.5	3.5	m
SD791231	∞	2863	78.9	10		0	10	m	m	3.5	m
WT177	22	2774	78.4	10)		ന	10	ო	3.5	m	3.5
хн947	19	2685	71	95	160	7	20	ς,	ო	т	m
CI17439	2	2238	80	66		, 4	10	2	4	4	4
CI1442	-	1750	77.4	94	•	4	30	80	ო	m	m
MEAN		3320									
LSD(.05)		625									
-		400									

C.V. 13.4

* l=yellow, 5=blue; ** l=erect, 5=prostrate; *** l=wide, 5=narrow.

ABERDEEN

IDAHO

TWO REPLICATIONS

	: :	YIELD	:	PLANT	:	DAYS TO:	DAYS TO:	LODGING	:	STRAW	;	FROST	
C.I. OR	:ENTRY:		:	HEIGHT		HEADING:			:5	TRENGTH	:	DAMAGE	
SEL. NO.	: NO. :	KG/HA	:	СМ	<u>:</u>	FROM 1/1:	FROM 1/1:	0-9	;	0~5	<u>:</u>	0-5	
BLIZZARD	29	5546		96		160	191	1		3		3	
NE82438	15	5536		84		156	191	1		2		2	
XNH1354	20	5050		83		157	189	0		2		3	
NE83432	16	4142		76		156	188	0		3		3	
ND8286	11	4128		96		161	187	1		3		2	
NT176	21	4073		92		16 1	189	0		4		3	
5D78207-4	7	3955		96		159	191	1		3		3	
P1476975	3	3914		71		154	184	0		2		2	
D8215	10	3875		93		157	187	0		2		3	
NEELEY	27	3864		82		163	189	0		3		3	
WESTON	28	3849		96		155	190	1		3		4	
IE84581	17	3837		72		153	184	0		2		3	
D0301	25	3775		74		158	188	0		3		3	
SURVIVOR	30	3745		87		159	188	0		3		3	
1E82656	14	3724		84		155	185	0		3		3	
4T8039	26	3680		93		156	186	0		3		3	
(H947	19	3650		74		152	185	0		2		3	
ND8407	12	3614		110		159	188	1		3		3	
5D82144	4	3558		96		154	182	1		3		3	
D791231	8	3557		89		158	187	1		3		3	
SD82114	6	3541		82		156	185	0		3		3	
ID0180	24	3507		73		162	188	0		3		3	
IA-81-362-5	18	3437		64		152	183	0		1		3	
ND8212	9	3325		87		159	186	0		2		2	
SD76463-16	5	3286		86		155	185	0		3		3	
1 0 8460	13	3208		105		158	188	1		3		3	
√T177	22	2982		93		162	190	0		4		2	
√T179	23	2758		81		163	189	0		3		3	
CI1442	1	2743		98		161	187	1		4		3	
CI17439	2	2701		87		161	185	0		3		3	

MEAN 3752 LSD(.05) 1302 C.V. 17.0

LIND
WASHINGTON
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY:	YIELD KG/HA	: VOLUME : WEIGHT : KG/HL	: PLANT : HEIGHT : CM	: DAYS TO : : HEADING : : FROM 1/1:
NE84581 ND8215 ND8286 ID0301 XNH1354 WT176 MT8039 XH947 ND8407 PI476975 ND8212 NE82438 C117439 NE82656	17 10 11 25 20 21 26 19 12 3 9 15 2	2165 2056 2040 1928 1910 1870 1834 1831 1796 1789 1784 1731 1726	79.7 77.3 77.4 78.8 78.7 76.9 76.6 77.9 76.8 77.1 78.3 76.9	61 66 68 63 73 62 58 65 64 59 65	143 145 145 146 145 146 142 142 143 142 145 144
ID0180 SD76463-16 SD82144 CI1442 SD82114 WT179 NA-81-362-5 WT177 SD791231 ND8460 NE83432 SD78207-4	24 5 4 1 6 23 18 22 8 13 16 7	1706 1679 1654 1650 1598 1594 1536 1533 1515 1329 1301 800	78.6 79.5 77.5 78.8 79.9 77.4 79.6 78 77.8 77.7 79.1 79.3	64 60 69 59 53 66 65 66 58	146 142 142 146 142 149 143 146 143 144 144
MEAN		1695			

MEAN LSD(.05) C.V.

Table 14. Summary of mean yields (kg/ha) of 26 wheats grown in the 1988 Northern Regional Performance Nursery at 20 locations with state means and ranks.

	,.			NO	NORTH				
VARIETY OR	: C.I. OR	:ENTRY:	LINCOLN	اة 	PLATTE	: ALLIANCE	MCF	NFBR	NFBRASKA
PEDIGREE	: SEL. NO.	: NO:	NEBRASKA	: NEB	NEBRASKA	NEBRASKA	SKA	STATE	STATE MEAN
MIPIGINS/WINGS/3/PKr*4/Agnt//Bel.198/Lcr	NE82438	15	3241 11	2255	5 10	4002	ব	3166	9
Complex Pedigree	NE83432	16	3728 3	2085	5 17	4163	7	3325	4
OK11252A/W76-1226 (Abilene)	NA-81-362-5	18	4282 1	2486	6 5	4364	 1	3711	, -
Winter Wheat Hybrid	XNH1354	20	3232 12	2095	5 16	4031	ო	3120	œ
Bez 1/Ctk78//Arthur/Ctk78/3/Bennett	NE84581	17	3596 4	2873	E	3773	σ	3414	ო
Brule/3/Parker*4/Agent//Belot.198/Lcr	NE82656	14	3374 5	2798	8 2	3682	11	3285	ı,
Colt	P1476975	က	3356 6	1973	3 20	3335	19	2888	4
Lancota/Froid//NE69559/Wnk	MT8039	56	3141 13	2369	8 6	3977	9	3162	_
CI15322//3*(Agent/4*Scout66)	SD76463-16	ស	3297 9	2496	6 4	3057	21	2950	11
SD74221*2/Lathrop	SD82114	9	3347 7	2428	8 7	3082	20	2952	10
Winter Wheat Hybrid	XH947	19	3867 2	2675	5 3	3982	ιΩ	3508	8
Rrr*2/1809	ND8286	11	2867 18	2184	4 13	3353	16	2801	•
Ctk/3/Froid*2//ND363/ND269	ND8407	12	3089 14	2118	8 15	3341	17	2849	15
	ND8215	10	3266 10	1827	7 22	3588	13	2894	13
CI15322//Aga/4*Sut 66/3/Ctk 78/4/SD74221	\$D82144	4	3302 8	2158	8 14	3339	18	2933	12
Rrr//Yogo/Trapper	ND8212	6	2235 25	2059	9 19	3600	12	2631	21
Complex Pedigree	100301	25	2262 24	1705	5 25	3948	_	2638	20
Turkey/Burt//Bezostaya 1	100180	24	2345 22	1671	1 26	3412	35	2476	24
SD76669*2/KS71591	SD791231	80		2232	2 11	3707	10	2962	6
SD76109/Rose	SD78207-4	7	2930 16	2443	3 6	3055	22	2809	17
Kharkov 22 MC/Bezostaya 1	WT176	21	2291 23	1788	3 23	3472	14	2517	23
Roughrider	CI17439	7	2486 20	2208	3 12	3827	∞	2840	16
Rrr/F0.1527	ND8460	13	2878 17	2307	6 /	2999	24	2728	19
Norstar/Rrr	WT179	23	2441 21	1723	3 24	2863	26	2342	56
Kharkof	CI1442	1	2573 19	2066	5 18	2961	25	2533	22
Norstar/Rrr	WT177	22	2215 26	1961		3026	23	2400	52
		100							
	MEAN		3023	2192	•	3536		2917	
	LSD(.05)		489	403		650		545	
	c. v.		6 ,0	11.0		11.2		10.9	

Table 14. Continued.

				.					5	SOUTE								
C. T. OB	FNTRY	BROOK INGS	YES.		HIGHMORE	DR.F	PRESHO	SHO		DAKOTA		ARCHER	22 141		SHERIDAN		WYOMING	2
SEL. NO.	.05		E	S	. DAKOTA	Į.	S. DA	DAKOTA	STAT	STATE MEAN	 <u>z</u>	WYOMING	일	*	WYOMING	<u></u>	STATE MEAN	MEAN
									•	į		1	(•			ų į	·
NE82438	15	2526	~	•	2189	9	1539	œ	208	io o		1578	12		545	14	1554	4
NE83432	16	2307	m	•	2354	m	1920	2	219	4 3		1565	14	~	88	~	1777	4
NA-81-362-5	18	2836	_	•	2623		1730	w	539	9		1527	15	N	8	_	1768	ιΩ
XNH1354	20	1853	16	•	1665	14	1755	ধ	175	H H	_	1950	-	7	757	9	1854	2
NE84581	17	2275	9		2296	4	1786	ო	211			1809	4	-	. 869	13	1704	ဆ
NE82656	14	2180	~	•	2588	2	1996	H	225			1596	11	Ä	349	4	1723	7
PI476975	m	2106	10	•	1752	11	1450	12	176	о О		1861	m	7	1818	LO.	1839	(°)
MT8039	56	1617	23	• •	1806	O)	1563		166		Λ.	1771	9			22	1736	9
S076463-16	2	2822	ξΩ	•••	2190	5	1539	∞	200			1766	7		-	12	1704	ထ
SD82114	49	2042	12	•	1959	00	1239	17	174		_	1605	10	74		21	1428	20
XH947	19	2044	11	••	2004	7	1537		186			1930	2	_	_	25	1487	17
ND8286	11	1925	14		6991	13	1006		153			1681	σ	_		19	1509	16
ND8407	12	2293	4		1759	10	1424	33	182	5 8		1511	17	1		11	1579	11
ND8215	10	2119	6	,	1522	17	1115	19	158	5 14	•	1098	26	[i		20	1200	24
SD82144	4	1951	13		1728	12	1253	16	164	4 13	~	1775	цО	 -1	332	8	1854	
ND8212	თ	1657	22		396	19	1168	38	140	7 18	<u>~</u>	1441	13	1 1	448	17	1445	19
100301	25	864	26	•	1210	21	1558	7	1210	0 25		1428	20	-	1706	on.	1567	12
100180	24	1244	52	•	0601	24	911		108	2 26		1491	18	7		7	1621	10
\$0791231	5	1662	21	,	1657	15	1332		155			1527	15	~		92	1281	22
SD78207-4	7	1678	20	,	1351	20	1037		135		_	1199	22	~	_	80	1459	18
WT176	21	1558	24		1074	52	1532		138		_	1128	25	 i		15	1300	21
C117439	2	1865	15	Į~1	121	22	661		121		-	1574	13	-		16	1519	12
ND8460	13	1679	19		533	16	878	24	136	3 20	_	1296	21	Η	1219	22	1258	23
WT179	23	1750	17		1105	23	976		127		٥.	1199	22			23	1193	25
CI1442		1717	18		1465	18	1316		149	3 17	~	1704	ထ	إنس	156	18	1565	13
WT177	22	2137	80	w	355	56	835		127		~	1175	24	_	103	24	1139	56
														1				
MEAN		1930		•	1691		1348		1656	ω		1546			1537		1541	
LSD(.05)		651		7 '	128		479		430			422		ā t	ا م		N. N.	
c.v.	•	20.6			4		21.7		T)	etr		10.0		V	o S		7.51	

Table 14. Continued.

0R NO 62-5	ENTRY	RY: WILLISIUN	<u>z</u>	· CASSELLER	ž	700						•			
62-5	NO.	: N. DAKOTA	OTA	: N. DAKOTA	0TA	N. DAKOTA	N. DAKOTA	STATE MEAN	MEAN	: KUSEMUUNI: : MINNESOTA	SOTA	: MINNESOTA	SOTA	: WASHINGTON	METON
62-5	Ā	610	5	1806		884		1103	-	1948	σ	2231	gard gard	1731	12
	19	678	4 4	1409	12	728	ı vo	938	4	1977	7	2846		1301	25
	18	778	·	1025	21	467	33	757	18	1995	9	2581	'n	1536	21
XNH1354 2	20	629	~	1675	ιΩ	390	22	868		1825	13	1769		1910	S
	17	730	2	1212	16	583	14	842		2116		2435		2165	-
	14	620	œ	1388	13	669	œ	305		1737		1712		1722	• •
5	٣	999	ιΩ	1507	ω	340	23	838		2087		1328		1789	10
	26	483	23	400	25	632	11	505		2661		1939		1834	
3-16	2	718	ന	1122	17	621	12	820		1948		2258	_	1679	16
SD82114 6	9	620	Φì	1300	14	393	21	771		2130		2718		1598	•
	19	543	15	381	56	444	19	456		1365		1692		1831	_
ND8286 1	11	602	11	1689	4	823	ო	1038		1964		1974		2040	•
	12	530	19	1563	7	269	16	887		1417		2740		1796	σ
	10	536	16	1497	10	719	7	918		1784		2568		2056	
SD82144 4	4	518	21	1502	O,	240	25	753		1616		1695		1654	17
ND8212 5	6	535	18	1740	7	598	13	958		1890		2604		1784	•
ID0301 2	25	929	9	554	24	569	15	586		1556		1275		1928	
ID0180 2	24	555	14	645	23	836	۲۵	6/9		1509		2101		1706	
SD791231	æ	602	11	1107	18	211	56	640		1787		1751		1515	
4	7	536	17	1295	15	422	50	751		1946		2179		800	
WT176	21	410	25	921	22	674	on	668		1197		1842		1870	-
68	2	523	20	1622	9	513	17	886		2065		20ec		1726	
ND8460 1	13	558	13	1486	11	309	24	784		1302		1704		1329	
	23	440	24	1068	19	800	ধ	769	17	1309	24	2344		1594	20
CI1442	,	484	22	1056	8	794	ıΩ	778		1618		1822		1650	
WT177 2	22	409	56	1691	ო	663	10	921		1515		2252		1533	
MEAN		575		1256		574		802		1779)	2093		1695	
LSD(.05)		27		682		297		N.S.		N.S.		574		289	
C.V.		7.1		33.1		31.6		31.3		30.3		16.7		10.4	

* Not included in state or regional means.

Table 14. Concluded.

]			ĺ.,		["				CLOVIS	2	5	CLOVIS	••				
C.I. OR	:ENTRY:	SIDNEY	¥λ∃\	••	MOCCASIN	Z	•••	BOZEMAN		WOW	MONTANA	••	(IRR.)	•	<u>(0)</u>	(DRYL.)*		ABERDEEN	··	REGIONAL	NAL.
SEL. NO.	. 85	MONTANA	AN A	.,	MONTANA	4		MONTANA		STAT	STATE MEAN	{	NEW MEXICO	XICO	핅	NEW MEXICO		IDAHO		AVERAGE	Ж
	ļ	i			;	ı		;		ć		•		9	į	9		• • • L			,
NE82438	ÇI	8	4		2543	_	4	1049		32.9	יוב מיי	7	78/ //	2	Ť	23		2230		74/2	~
NE83432	16	673	14		2271	15	7	1408 1		334	0	ব	125	ø	162	15		4142 3		2472	2
NA-81-362-5	18	167	~		2396	∞	•••	3743 É		307	8 0	-47	114	~	17:	11 38			•	2467	m
XNH1354	20	704	6		2831	_	,	3778		330	4 2	~ ₹	641	2	302	38 4		5050 2		2412	4
NE84581	17	671	15		2726	4	,,,	3380]	m	305	3 10	(**)	1393	14	227	1 9,				2380	2
NE82656	14	763	€4		2809	c ₂	•••	321 1	10	306	6 0	(T)	066	ထ	187	74 8				2356	9
PI476975	m	723	٥		2336	10	•	1170 2	_	325	es es	ব	439	ις.	174	• •		3914 7		2243	7
MT8039	56	627	20		2791	m	,		10	311	٤ 6	**	643	<u>~</u>	144	16 19			٥.	2223	œ
SD76463-16	ĸ	725	ιn		2392	on.	117	3614 5		300	3 11	נייז	480	12	185	13 7				2202	თ
SD82114	9	21.1	24		2311	11	***	3426 1	, - 1	286	9 13	ব	510	4	212			3541 17	~	2198	10
XH947	19	562	26		2271	14	••	3 5893	4	247	3 20	4	528	ന	206			3650 13	m	2183	I
ND8286	11	706	8		2291	13	,,,	3648 E		297	0 12	ι.)	1447	13	170		_	4128 4		2157	12
ND8407	12	671	15		2047	21	***	- •	21	272	0 14	(17)	1207	16	146			3614 14		2155	13
ND8215	10	681	Ħ			20	••1	1183 1	7	262:	5 18	ניי	363	15	202	_				2100	14
SD82144	ব	704	ø		2174	16	1-1	3131 2	20	2653	3 17	(T)	3761	11	1548			3558 15	10	2098	15
ND8212	Ġ	622	27			12	.,,		9	271	4 15	የግ	127	17	168				_	2009	16
100301	52	748	ന		2690	Q.	(*)	7 6991		318	9 6	(L)	927	On.	221				~	1982	17
100180	24	711	7			ıΩ	(7)	1866 4		328	4	2	653	20	141				<u>~</u>	1912	18
50791231	80	575	25		_	24	"	863 2	2	238.	3 24	23	685	13	13)					1900	19
SD78207-4	7	209	22		_	21	"	864 2		245		2	488	21	163					1882	20
WT176	21	583	23		-	25	(*)		ထ	250(0 19	2	449	22	142					1856	21
CI17439	2	681	11			17	i,vi	• -	25	216.		7	800	18	155					1851	22
ND8460	13	679	13			26	(7)	1337 1	4	245	0 22	, 1	845	56	125	8 24			٥.	1772	23
WT179	23	999	17			18	נייו		16	268	3 16	2	386	23	123				-	1765	24
CI1442	,1	299	19			23	,1		56	1870		2	2317	24	185	6 0				1755	25
WT177	22	999	18		5069	19	7		е	242	2 23	2	110	25	963				~	1752	26
MEAN		673			2290		(*)	320		280	ເກ	n	393		167	9		3675		2098	
LSD(.05)		N.S.			427		Ð	625		743		σ'n	930		N.S.			1296		254	
` `		16.5			11.4			3.4		13.	N	-	6.7		23.	rů.		17.1		16.6	

* Not included in state or regional averages.

Table 15. Summary of mean yields (kg/ha) and ranks of 26 wheats grown in the 1988 Northern Regional Performance Nursery at 11 central and northern locations from which a CV of less than 17.5 and a significant f test for entries were obtained.

	.,				NORTH	"			"							••
r I OR	FNTRY	LINCOLN	2		PLATTE		A	ALLIANCE	 ਮੁ	ARC	ARCHER	WA	WASECA	: HIG	HIGHMORE	••
SEL. NO.		NEBRASKA	SKA		NEBRASKA	5	ž	NEBRASKA	5	WYOMING	ING	: MINN	MINNESOTA	. S. D	S. DAKOTA	"
NEBOASB	15	3241	=		2255	0	4	102	₹	1578	12	223	111	218	9	
NA_81_362_5	2 2	4282	; ,-		2486		4	4364	· ,4	1527	15	2581	2	2623	3 1	
NE84581	17	3596	4		2873	_	m	3773	On.	1809	4	2435	7	229	5	
NE83432	16	3728	m		2085	17	4	4163	7	1565	14	2846		2354	m	
XNH1354	20	3232	12		2095	16	₹	4031	m	1950	-	176	3 19	166	5 14	
NE82656	14	3374	ហ		2798	2	m	3682	11	1596	디	1712		2588	2	
MT8039	56	3141	13		2369	œ	ĸ		9	1771	9	1939	3 16	1806	თ	
XH947	19	3867	2		2675	m	ĸ		Ω.	1930	2	1692		2004		
SD76463-16	Ŋ	3297	0		2496	4.	ĕ		21	1766		225	6	2190	5	
SD82114	Q	3347	7		2428	7	m		20	1605	10	271	•	1959	w	
P1476975	m	3356	φ		1973	20	m		19	1861		132		175	,,	
ND8286	11	2867	18		2184	13	m		16	1681		197	15	1669		
ND8407	12	3089	14		2118	15	m		17	1511		274		175	•	
ND8215	10	3266	10		1827	22	m		13	1098	3 26	256	_	152	2 17	
5082144	4	3302	ထ		2158	14	'n	3339	18	1775		1695	5 23	1728	•	
ID0301	52	2262	24		1705	25	ř	948	7	1428		127		121		
100180	24	2345	22		1671	56	m	412	15	1491		210		1090	••	
ND8212	Ø1	2235	52		2059	19	m	සි	12	1441		260		1396	• •	
SD791231	ထ	2955	15		2232	11	'nί	3707	10	1527	15	1751	1 20	1657		
SD78207-4	7	2930	16		2443	9	m	3055	22	1199		217		1351		
WT176	21	2291	E		1788	23	(r)	3472	14	1128		184		1074		
ND8460	13	2878	17		2307	6.	Ň	666	24	1296		1704	4 22	1533		
CI17439	2	2486	20		2208	12	m	3827	ထ	1574		2060		1121		
WT179	23	2441	21		1723	24	Ñ	2863	56	1199	25	234		1105	5 23	
WT177	22	2215	56		1961	21	ξĎ	3026	23	1175		2252	2 10	855		
CI1442		2573	19		2066	18	₹.	2961	25	1707	80	182		146	5 18	
			}													1
MEAN		3023			2192		m	536		1546	.0	2093	m	1691	_	
LSD(.05)		489			403		Ó	650		422		574		428		
C.V.		و. و.			11.2		 1	1.2		16.		16.		15.	4	
							1					Ì				

Table 15. Concluded.

) ··			١.,					١		"			١.,		۱
C.I. 0R	:ENTRY:	MOCCASIN	NIS		BOZEMAN		ABE	ABERDEEN	••	LIND	 	WILLISTON	STON	••	REGIONAL	••
SEL. NO.	. NO.	MONTANA	¥]	MONTANA	A		IDAHO	•	WASHINGTON	GTON	N. DAK	DAKOTA		AVERAGE	
NE82438	15	2549	7		4049	m	553	1		1731	12	619	10		2725 1	
NA-81-362-5	18	2396	œ		3743	y.	3437	7 19		1536	21	778	1		2705 2	
NE84581	17	2726	4		3380	13	3837	6		2165	-	730	21		2693 3	
NE83432	16	2271	15		4408	+ 1	4142	en Ol		1301	25	678	4		2685 4	
XNH1354	20	2831	_		3778	2	5050	2		1910	2	629	7		2631 5	
NE82656	14	2809	7		3321	15	3724	11		1722	74	620	ထ		2541 6	
MT8039	56	2791	m		3447	10	3680) 12		1834		483	23		2476 7	
XH947	19	2271	14		2685	24	3650	3 13		1831	œ	543	35		2466 8	
SD76463-16	ĸ	2392	o,		3614	on.	3286	27		1679	16	718	ო		2432 9	
SD82114	9	2311	ΙΙ		3426	ᇤ	354	1 17		1598	16	620	ō		-	
P1476975	æ	2336	10		4170	7	391	1 7		1789	10	999	£,			
ND8286	11	2291	13		3648	ω	412	₩.		2040	ო	602	11			
ND8407	12	2047	21		3393	12	361	1 14		1796	o,	530	19		-	
ND8215	10	2067	20		3183	17	387	80		2056	2	536	16		2326 14	
SD82144	4	2174	16		3131	8	355			1654	17	518	7			
ID0301	52	2690	9		3669	7	377			1928	4	636	9			
100180	24	2712	S.		3866	4	350			1706	15	555	14			
ND8212	O)	2293	12		3135	13	3325			1784	11	532	18		2219 18	
SD791231	œ	1903	24		2863	22	355			1515	23	602	11			
SD78207-4	7	2047	21		2864	21	3955			800	56	536	17			
WT176	21	1849	25		3151	18	407			1870	φ	410	52			
ND8460	13	1562	56		3337	14	320			1329	24	558	13			
CI17439	2	2085	17		2238	25	2701			1726	13	523	20		2050 23	
WT179	23	2078	18		3288	16	2758			1594	20	440	24			
WT177	22	2069	19		2774	23	2982	2 23		1533	22	409	56		1932 25	
CI1442	⊷	1991	23		1750	56	274			1650	18	484	22		1928 26	
																1
MEAN		2290			3320		367			1695		5/5			2330	
LSD(.05)		427			625		1296			289		25			233	
c.v.		11.4			13.4		17.			10.4		7.1			14.0	
		į	Ì	Ì		ļ	ļ		ŀ				١	١	ì	ļ

Table 16. Summary of mean yields (kg/ha) and ranks for 20 wheats grown in the Northern Regional Performance Nursery at 19 locations in 1987 and 1988 with state means and ranks.

					NORTH	"				"
VARIETY OR	: C.I. OR	:ENTRY:	LINCOLN	••	PLATTE	••	ALLIANCE	••	NEBRASKA	KA:
PEDIGREE	: SEL. NO.	: NO. :	NEBRASKA	••	NEBRASKA		NEBRASKA	•	STATE MEAN	EAN:
OK11252A/W76-1226 (Abilene)	NA-81-362-5	18	3704 1		2944 5		4789 1	m	312	
Brule/3/Parker*4/Agent//Belot.198/Lcr	NE82656	14			3591 1		4285 3	m	175	2
Lancota/Froid//NE69559/Wnk	MT8039	92			3054 2		4456 2	m	325	m
HiPlains/Wings/3/Pkr*4/Agnt//Bel.198/Lcr	NE82438	15			2997 4		4159 4	m	546	4
•	P1476975	m			3008 3		3931 5	m	216	2
Rrr*2/1809	ND8286	11			2858 1	0	3855 6	m	392	7
CI15322//3*(Agent/4*Scout66)	SD76463-16	5			2904 7		3347 15		307	10
CI15322//Aga/4*Sut 66/3/Ctk 78/4/SD74221	SD82144	4	2689 7		2892 8		3467 13	3)16	6
S074221*2/Lathrop	SD82114	9			_		3630 10		142	9
Turkey/Burt//Bezostaya 1	ID0180	24				12	3822 7	2	784	14
Rrr/3/Froid//Winoka/WW8	ND8215	10				19	3499 11	7	360	13
Rrr//Yogo/Trapper	ND8212	6	•			9	3449 I4	2	726	17
Kharkov 22 MC/Bezostaya 1	WT176	21	2161 16			ຕາ	3497 12	2	727	16
SD76109/Rose	SD78207-4	7	2461 13		2863 9		3335 17		2886	11
Ctk/3/Froid*2//ND363/ND269	ND8407	12	2831 3			15	3340 16		375	12
SD76669*2/KS71591	SD791231	œ	~		•	H			355	80
Roughrider	CI17439	2	2139 17			14	3667 9		17.	15
Norstar/Rrr	WT179	23	•			18			503	19
Norstar/Rrr	VT177	22	2054 18			20			386	20
Kharkof	CI1442	⊷	2251 15		2376 17		2917 19		515	18
	MEAN		2524		2730		3660	33	111	
	LSD(.05)		626		637		793	4	438	
	c.v.		11.1		11.7		11.8	-	89	

Table 16. Continued.

						So	JTH						''	NORT	
C. I. OR	: ENTRY:	PRESHO	웊	: HIGHMORE	ORE	à à	DAKOTA	: WILLISTON	Š	: CASSELTON	S S	: CARRINGTON	GTON:	DAKOTA	ΓĀ
SEL. NO.	. NO.	S. DAKOTA	0TA	: S. DAKOTA	OTA	STATE	STATE MEAN	: N. DAKOTA)TA	: N. DAKOTA	OTA	: N. DAKOTA	OTA:	STATE MEAN	(EAN
NA-81-362-5	18	2446	m	3382	,- 1	291	2	1358	1	3259	۲	1401	17	2006	4
NE82656	14	2688	1	3184	2	293(1	1351	m	2916	Q	1815	ผ	2027	m
MT8039	56	2540	7	2693	ro.	261,	7	1200	9	2405	8	1456	13	1687	51
NE82438	15	2233	7	2780	4	250	7	1142	12	3583	 :	1492	12	2073	_
P1476975	m	2255	و	2424	11	233	œ	1146	11	2942	'n	1152	20	1747	14
ND8286	11	2163	11	2584	7	237.	3 7	1193	1	3116	m	1835	-	2048	7
SD76463-16	2	2349	Ŋ	2928	رب ا	263	33	1352	2	2698	11	1541	11	1864	1
SD82144	4	2127	12	2480	6	230.	9	1140	13	3021	4	1401	18	1854	œ
SD82114	q	2191	10	2666	9	2428	3 6	1231	4	2640	13	1439	15	1770	12
100180	24	1918	18	1995	13	195(1151	ထ	2639	14	1659	9	1816	19
ND8215	10	2070	5	2434	10	225	2 12	1147	10	2901	æ	1774	m	1940	LO.
ND8212	σı	2216	ω	2364	12	229(01 (1111	14	2902	7	1766	4	1926	9
WT176	23	2410	4	2080	17	224		1088	17	2487	19	1596	89	1724	18
SD78207-4	7	2087	13	2252	13	2169	•	1102	16	2671	12	1439	16	1738	15
ND8407	12	2072	14	2492	ω	228;	•	1210	S.	2488	18	1575	თ	1758	13
SD791231	ထ	2210	0	2213	14	221	1 14	1084	18	2568	16	1283	19	1645	20
C117439	2	1742	20	2058	18	190(•	1150	6	2715	10	1630	7	1832	6
WT179	23	1947	17	2087	16	2017		1059	19	2604	15	1545	10	1736	16
WT177	22	1788	19	1954	20	187]	1 20	1028	50	2723	0	1449	14	1733	17
CI1442	H	1975	16	2205	15	209(1103	15	2500	17	1742	က	1782	11
MEAN		2171		2463		2317		1167		2789		1550		1835	
LSD(.05)		446		454		520		N.S.		N.S.		N.S.		R.S.	
c.v.		12.2		10.1		11.		7.2		15.9		27.6		18.9	
							-								

Table 16. Continued.

	VEAN :	12]]	2	m	7	4	J.	13	14		9	10	8	15	18	19	16	On.	17	20				
MONTANA	STATE MEAN	3334	3489	4067	3895	3608	3860	3683	3301	3259	4319	3634	3550	3560	3222	3121	2948	3201	3558	3180	2614		3470	783	10.9
•• ••	• •-																								
Z Z	¥	13	7	2	മ	ന	9	4	15	11	, -1	œ	12	10	16	14	17	18	0	13	20				
BOZEMAN	MONTANA	3746	4026	4495	4166	4326	4112	4214	3521	3760	4512	3949	3749	3851	3410	3596	3367	3275	3927	3145	2523		3784	838	11.5
	• •-																								
* \ !!	. ¥	ιΩ	12	2	4	Q	13	Φ	14	19	7	Q	H	→	15	ហ	20	10	16	18	17				
SIDA	MONTANA	1918	1822	1995	1895	1879	1810	1867	1807	1617	1871	1859	1839	2021	1762	1891	1478	1851	1760	1664	1698		1815	N.S.	12.3
•• •	• ••																								
MIS.	N N	15	14	2	ო	16	4	10	12	17		9	S	1	13	19	20	11	Q	ထ	18				
MUCCASIN	MONTANA	2922	2951	3639	3623	2890	3607	3152	3082	2758	4125	3318	3351	3269	3035	2647	2530	3127	3190	3215	2706		3157	S.	و. س
••••	·																								
<u>بر</u>	MEAN	2	ω	σ	15	4	16	ហ	(~-1	20	ന	11	9	13	12	_	19	14	18	17	10				
SMIMUAM	STATE	387	215	151	918	281	890	273	443	758	352	028	254	2002	017	233	761	928	862	887	115		087	S	21.9
	. ST	8	2	2		2		8	2		2	2	2	2	2	2	-	F=4	1~4	-	8		2	25	N
NAN	<u> </u>	2	10	12	13	7	17	ហ	-	19	m	o,	4	œ	16	9	50	18	14	15	11				
CHFRIDAN	MYDMING	2633	2247	2195	2094	2381	1868	2450	2747	1771	2550	2271	2526	2380	1967	2438	1577	1849	2061	2032	2214		2210	.S.	25.1
e.	او ۽	4	, –1	Ģ	18	2	14	7	Ŋ	16	m	15	12	20	∞	o	13	11	19	17	10				
ARCHI	MYOMING	2140	2183	2106	1741	2181	1912	2096	2140	1745	2155	1785	1982	1623	2067	2028	1945	2007	1662	1742	2016		1963	N.S.	17.1
: .var	<u>:</u> ::																								
	S S	18	14	56	15	က	11	5	4	9	24	10	on.	21	7	12	∞	~	23	22	7				
د ۱	SEL. NO.	NA-81-362-5	NE82656	(T8039	NE82438	P1476975	ND8286	76463-16	SD82144	SD82114	1D0180	ND8215	ND8212	WT176	SD78207-4	ND8407	SD791231	17439	4T179	IT177	:11442	, , ,	(EAN	LSD(.05)	
`	- "	Ŋ.	NE	Ĭ	NE	PI,	Ž	SD	Ŝ	Š	ă	Ñ	ĝ	3	SD	ĝ	SD	CI	Ξ	3	CI		Ä	Š	ن

* Not included in state or regional averages.

Table 16. Concluded.

		CLOV	IS	\	CLOVIS					"							"
C. I. OR	:ENTRY:	(IRR.)	~	=	(DRYL.)*	••	WASECA	ర	: ROSEMOUNT*	OUNT* :	ABER	ABERDEEN	□ ••	LIND*	. REG	REGIONAL	••
SEL. NO.	 S	NEW MEXICO	XICO	밀	NEW MEXICO	••{	MINNESOTA	OTA	: MINNESOTA	SOTA	AI	웆	: #ASH1	WASHINGTON	:. ¥E	AVERAGE	••
NA 01 060 E	0	205	o	7	763 3		2613	~	1991	σ	5048	æ	1186	91	317	2 1	
C-705-10-Wi	2 5	6763) r	י כ			2077	, 4	2058		5091	uc	1326	17	308	2 2	
NESCOSO	- 1	6/70	, ,	úč	/ //0		7707	2 :	0000 4 E) r-	5670	۰ ۸	1486	-	304	00	
MT8039	5 9	4994	q	V	222	_	£334	7.7	0/47	- ,	0.00	4 •	ָבָר בְּיבְּיבְרָבְיבְיבְיבְיבְיבְיבְיבְיבְיבְיבְיבְיבְיב	1 6	5 6)	
NE82438	15	3613	16	2	123 3	on.	2602	4	2081	ব	6210	-	1246	_	300	4	
P1476975	m	4712	9	7	721 1	o,	1988	17	2131	2	5308	4	1372		282	د	
ND8286	11	3964	13	Ñ	511 1	īŪ	2367	10	2123	m	5120	2	1700	•	287	ίο O	
SD76463-16	L.C	4488	8	m	135 2		2513	7	2048	9	3949	15	1663		285	ر و	
SD82144	· #	5135	ব	Ñ	986		1879	19	1854	13	4935	H	1546	-	284	غ 60	
SDS2114	ۍ ٠	5279		m	•	_	2515	9	2022	2	5050	~	1375		283	6	
100180	24	3401	17	2	•	12	2328	12	1610	16	5383	m	1471		281	-,	_
100100 ND8215	; ;	4559	i	m	•	_	2620	~	1937	10	4592	12	1745	-	280	0 11	
ND8212	,	4115	[~	730 5	_	2727	_	1874	11	4428	13	1575		276	11 12	
WT776	27	4148	10	Ñ	589 1	4	2228	14	1360	20	4935	10	1763	. 1	2685	•	
SD78207_4	ļ	3797	4	۲.	•	18	2215	15	1864	12	4947	6	855		264	3 14	
ND8407	. 6	4035	: \$	7	•		2589	ĸ	1661	15	3806	17	1652		564	15	
ND040/	4 α	4156	i o	تى ا	•	. ~	1963	18	1843	14	4248	14	1431		255	-	
30/7173	۰ د	3750	ر بر	۱ ۸			2321	13	2021	æ	3919	16	1727		525		
UT170	3 .	3344	18	ı Ri	,	16	2409	œ	1402	19	3630	19	1540		246	-	~^
MT177	3 8	3078	202	~		ဝ	2371	ō	1545	17	3761	18	1387		235	99	_
CI1442] 	3097	16	2	2656 1	-	1828	20	1502	18	3606	20	158(1	23:		_
																	1
MEDN		4204		2	582		2325		1870		4682		148	~	2759	က္က	
150/05		1305		Z	S		N.S.		392		1889		448		31(_	
C.V.		11.0		7	18.5		12.5		22.4		13.7		13.(10	13,	ω	

* Not included in state or regional averages.

Table 17. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 26 entries in the 1988 Northern Regional Performance Nursery grown at 17 locations.

	: :	MEAN YIELD	:		:		:	COEFFICIENT	;
	: :	OVER 17	:	REGRESS ION	:	CORRELATION	:	0F	:
C.I. OR	:ENTRY:	LOCATIONS	:	COEFFICIENT	:	COEFFICIENT	:	DETERMINATION	:
SEL. NO.	: NO. :	KG/HA	:	(b)	:	(r)_	:	(r ²)	;
		A 5				2.04		0.00	
NE82438	15	2475		1.24		0.96		0.92	
NE83432	16	2472		1.20		0.96		0.93	
NA-81-362-5	18	2467		1.16		0.94		0.88	
XNH1354	20	2412		1.29		0.96		0.93	
NE84581	17	2380		1.01		0.97		0.95	
NE82656	14	2356		1.00		0.95		0.91	
PI476975	3	2243		1.15		0.95		0.90	
MT8039	26	2223		1.19		0.95		0.91	
SD76463-16	5	2202		0.92		0 .9 7		0.94	
SD82114	6	2198		1.09		0.95		0.90	
XH947	19	2183		1.18		0.92		0.85	
ND8286	11	2157		1.01		0.97		0.95	
ND8407	12	2155		0.94		0.97		0.95	
ND8215	10	2100		1.03		0.97		0.94	
SD82144	4	2098		1.01		0.97		0.95	
ND8212	9	2009		0.89		0.95		0.91	
ID0301	25	1982		1.12		0.91		0.84	
ID0180	24	1912		0.96		0.92		0.84	
SD791231	8	1900		0.97		0.97		0.94	
SD78207-4	7	1882		0.94		0.94		0.88	
WT176	21	1856		0.94		0.94		0.88	
CI17439	2	1851		0.80		0.91		0.82	
ND8460	13	1772		0.83		0.91		0.84	
WT179	23	1765		0.78		0.94		0.89	
CI1442	1	1755		0.62		0.92		0.84	
WT177	22	1752		0.74		0.90		0.81	

Table 18. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 20 entries in the 1987 and 1988 Northern Regional Performance Nursery grown at 15 locations.

	: :	MEAN YIELD	:		:		:	COEFFICIENT
	: :	OVER 15	:	REGRESSION	;	CORRELATION	:	0F
C.I. OR	:ENTRY:	LOCATIONS	:	COEFFICIENT	:	COEFFICIENT	:	
SEL. NO.	: NO. :	KG/HA	:	(b)	:	<u>(r)</u>	:	(r ²)
NA-81-362-5	18	3172		1.12		0.94		0.88
NE82656	14	3082		1.09		0.94		0.89
MT8039		3048		1.26		0.93		0.09
M18039 NE82438	26 15			1.26		0.97		0.93
	15	3001						
PI476975	3	2890		1.09		0.95		0.91
ND8286	11	2875		1.04		0.97		0.95
SD76463-16	5	2850		0.90		0.97		0.93
SD82144	4	2844		1.10		0.97		0.94
SD82114	6	2831		1.07		0 .9 5		0.91
ID0180	24	2811		1.17		0.94		0.88
ND8215	10	2800		1.03		0.97		0.95
ND8212	9	<i>2</i> 761		0.95		0.97		0.94
WT176	21	2685		1.09		0.97		0.94
SD78207-4	7	2643		0.99		0.98		0.95
ND8407	12	2640		0.75		0.94		0.89
SD791231	8	2554		0.95		0.97		0.93
CI17439	2	2524		0.91		0.96		0.92
WT179	23	2466		0.89		0.96		0.92
WT177	22	2359		0.80		0.94		0.89
CI1442	1	2337		0.71		0.95		0.90

Table 19. Summary of agronomic and yield data for 26 wheats in the 1988 Northern Regional Performance Nursery.

: : PLANT : LODGING : STRAW : DAYS TO : :ENTRY: HEIGHT : :STRENGIH : HEADING :	PLANT : LODGING : STRAW : DAYS TO HEIGHT : STRENGTH : HEADING	: LODGING : STRAW : DAYS TO : STRENGTH : HEADING	: STRAW : DAYS TO	DAYS TO HEADING		DAYS TO: WINTER RIPENING:SURVIVAL		:LEAF RUST:STEM RUS	:LEAF RUST:STEM RUST: :SEVERITY :SEVERITY :	BYD	: VOLUME : WEIGHT	YIELD
: NO. : CM : 0-5 :	3-0-5	3-0-5		1-5	: FROM 1/1:	FROM 1/1:	ક્લ	9-6	3 8	0-9	KG/HL	KG/HA:
NUMBER OF LOCATIONS 18 2	18	2	,		18	, - 1	7	2	, 4	гĦ	19	17
15 64 0 2	64 0 2	0 2	2		151	191	93	7	чO	2	72,3	2475
16 64 1 3	64 1 3	1 3	m		151	188	87	7	9	4	73.7	2472
18 60 1 1	60 1 1	-	-		149	183	63	5	50	7	75.4	2467
	65 0 2	0 2	2		152	189	80	23	06	9	73.3	2412
	65 1 2	1 2	2		151	184	79	-	S	7	73.3	2380
14 67 1 3	67 1 3	1	m		150	185	8	ις	ហ	ო	72.7	2356
	59 1 2	1 2	2		149	184	74	16	m	7	73	2243
	70 0 3	0	m		151	186	52	20	10	2	70.2	2223
	72 2 3	2 3	m		151	185	9/	ເກ	20	2	74.2	2202
6 68 2 3	68 2 3	2 3	m		150	185	81	φ	10	2	73.8	2198
19 64 1 2	64 1 2	1 2	7		150	185	28	œ	20	2	71.3	2183
11 71 1 3	71 1 3		m		153	187	86	60	10		72.6	2157
12 75 1 3	75 1 3	11	m		152	188	93	4	2		72	2155
10 74 1 2	74 1 2	1 2	7		153	187	84	m	ς,	2	69.7	2100
4 70 1 3	70 1 3	1	m		150	182	35	മ	, - 1	2	72.9	2098
9 71 1 2	71 1 2	1 2	2		154	186	94	22	 4	2	69.5	5003
25 63 1 3	63 1 3	1	m		153	188	54	14	90	~	71.6	1982
	66 1 3		m		155	188	99	14	06	က	70.8	1912
8 69 1 3	69 1 3	~ ~1	m		152	187	8	ĸ	10	₹	73.8	1900
7 68 1 3	68 1 3	m	m		152	191	8	m	20	ო	73.9	1882
	73 2 4	2 4	4		155	189	11	9	06	2	70.7	1856
	72 1 3		m		153	185	86	10	10	~	73	1851
13 75 1 3	75 1 3	T	m		153	188	74	2	10	2	73.6	1772
23 71 1 3	71 1 3	1 3	m		155	189	83	ø	10	2	71.9	1765
		V V	₹		153	187	76	13	ક્ષ	ო	73.7	1755
22 72 2 4		2 4	4		154	190	83	7	10	8	72.5	1752
											İ	

Seedling reaction of entries of the 1988 Northern Regional Performance Nursery to selected isolates of Puccinia graminis f.sp. tritici (by D. V. McVey, U.S.D.A., A.R.S., Cereal Rust Laboratory, U. of MN, St. Paul, MN). Table 20.

			Re	Reaction p	produced t	by isolates			
		72-	ì	1	t	72-	[74-	
		-00	21-	21-	25~	-00	01-	21-	
		1370C	399	5848	9689	53A	4 <i>A</i>	1409A	
		QFBS	SHSO	RHRS	RKQS	RT00	TNMH	TNMK	,
	Name or								Spec.
No.	sel. no.	151			11-32-113	3	15B	B-2	sr gene
r-1	Kharkof	s	S	S	v	s	S	s	none
2	Roughrider	. •	0	s	v	s	×	×	36
က	Co]t		2	2	2-	;1-n		. ^	6,17,8,9a,11
4	SD82144	23	2	23	S	;ln+,s	٠ <u>.</u> د.	S	Seg.17,+
2	SD76463-16	2	5-	2=	5-	. 16	Fet	5=	17,24
9	SD82114	2,:	23	23	2	;1+n	S.	2,;,s	10, Seg.6 +
7	SD78207-4	• •	S	2-		••	S.;		8,17,36
∞	SD791231	Ξ,	2==	;2-		;,2-	2-,;	.,2	Seg.6&17 +
თ	ND8212		• •	7	23	32		••	6,36,+
10	ND8215	s.;	23	23		32	• •	• •	+ • 9
11	ND8286		0	2-	 !	23	×	×	36,+
12	ND8407	• •	2	2	S	;In	• •	• •	-
13	ND8460		0	••	. · · ·	2=	.,2-	:,2=	11,36,Seg.6
14	NE82656	• •	1cn	2=	-2	, ,	• •	• •	6,17,24
15	NE82438	••	2=	;1 <u>-</u>		2=	10	••	6,24
16	NE83432		2=	-1.	5=	2=	2=,s	2=	24 &/or 31
17	NE84581		S	2	;1n	;1-n		• • •	6,8,10,1/
18	NA-81-362-5	Τ.	2=		2=	2=	, 2	2	+ 4
19	XH947		2-,s	v	2,5	2,5	;1,s	s,×	Seg.6,+
20	XNH1354	S	S	s	s	S	S	S	none
21	WT176	v	s	v	s	S	vı	S	none
22	WT177	~	0	23	-×	s	S	S	36
23	WT179	5,;1	o,s	S	×	×	v	v	Seg.36
24	ID0180	2	2=	2	2	2-	s	S	Tmp
25	100301	12n	w	w	; 1 n	u .	۷ì	Ø	Sr 10
56	MT8039	v	S	v	v	S	s	S	none

n = necrosis NA-81-362-5 = Abilene

Table 21. Adult plant field reaction of entries of the 1988 Northern Regional Performance Nursery to <u>Puccinia graminis</u> f.sp. tritici (by D. V. McVey, U.S.D.A., A.R.S., Cereal Rust Laboratory, U. of MN, St. Paul, MN).

	Name or	Ster	m rust
No.	sel. no.	6/22	7/1
1 2 3 4 5	Kharkof Roughrider Colt SD82144 SD76463-16	TS 0 0 0 0	30S TS 20MS 5MR 0
6 7 8 9 10	SD82114 SD78207-4 SD791231 ND8212 ND8215	0 0 0 0	0 10MR-MS 20MS TMR 10MS-S
11 12 13 14 15	ND8286 ND8407 ND8460 NE82656 NE82438	0 0 0 0	TMR 10MS TR TR 10MR
16 17 18 19 20	NE83432 NE84581 NA-81-362-5 XH947 XNH1354	0 0 TR 0 30S	30MR-MS 0 TR TR 60S
21 22 23 24 25	WT176 WT177 WT179 ID0180 ID0301	30S TS 0 TS 20S	40S TS TR 40S 60S
26	MT8039	20\$	30\$

Table 22. Hessian fly reaction, Great Plains biotype, 1988 Northern Regional Performance Nursery. (Data provided by J. H. Hatchett, USDA-ARS, Manhattan, KS.)

ENTRY NO.	C.I. OR SEL. NO.	REACTION TYPE	NO. OF	F PLANTS S
1	CI1442	Н	5	19
2	CI17439	H	4	21
3	PI476975	Н	19	5
1 2 3 4 5 6 7 8	SD82144			
5	SD76463-16	\$ \$		
6	SD82114	Н	6	17
7	SD78207-4	S		
8	SD791231	Н	5	18
9	ND8212	Н S S		
10	ND8215	S		
11	ND8286	H	15	12
12	ND8407	Н	15	15
13	ND8460	S		
14	NE82656	Н	25	4
15	NE82438	Н	18	5
16	NE83432	S		
17	NE84581	S		
18	NA-81-362-5	S		
19	XH947	S		
20	XNH1354	S		
21	WT176	S		
^^	·· - 177	R		
	79	H S S S S S S S S S S S S S S S S S S S		
	, au	S		
		S		
		S		

Table 23. Virus reactions of entries in the 1988 Northern Regional Performance Nursery. (Data provided by A. D. Hewings and F. L. Kolb, Urbana, Illinois.)

			BARLEY YELLOW	•	SOILB	ORNE :
ENTRY	C.I. OR	:	DWARF	:	MOS	
NO.	SEL. NO.	:	0~9	:	0~:	
1101	<u> </u>	<u>`</u>			Rep 1	Rep 2
1	CI1442		4		7	7
2	CI17439		5		7	7
3	PI476975		2		6	7
4	SD82144		2		8	8
5	SD76463-16		6		8	8
6	SD82114		4		8	9
7	SD78207-4		7		6	7
8	SD791231		7		6	7
9	ND8212		3		7	7
10	ND8215		7		8	8
11	ND8286		6		8	7
12	ND8407		4		8	7
13	ND8460		6		3	3
14	NE82656		7		6	7
15	NE82438		6		5	6
16	NE83432		6		8	8
17	NE84581		3		4	5
18	NA-81-362-5		6		3	3
19	XH947		4		7	7
20	XNH1354		7		6	7
21	WT176		3		б	5
22	WT177		5		7	8
23	WT179		7		7	7
24	ID0180		3		8	8
25	ID0301		8		7	8
2 6	MT8039		6		3	4

Table 24. Aluminum tolerance of lines tested in the 1988 NRPN based on hematoxylin staining of seedling roots. (Data provided by B. F. Carver, Stillwater, OK)

		Stain	Intensi	ty ^a	
Entry No.	Selection No.	Al Conc 0.18	entratio 0.36	n (mM) 0.72	Rating ^b
1	Kharkof	C/P	С	С	VS-MS*
2	Roughrider	С	C	С	VS
3	Colt	P	С	C	MS
4	SD82144	P/C	C/P	С	VS-I*
5	SD76463-16	C/P	C	C	VS-MS*
6	SD82114	C/P/N	C/P	C/P	VS-T*
7	SD78207-A	С	С	С	VS
8	SD791231	C/P	C/P	C	VS-I*
9	ND8212	С	С	С	٧s
10	ND8215	C	С	C	VS
11	ND8286	С	C	С	VS
12	ND8407	N	P	P	${f T}$
13	ND8460	С	C	С	VS
14	NE82656	P	С	C	MS
15	NE82438	C/P	С	С	VS-MS*
16	NE83432	P	C	С	MS
17	NE84581	P	P	С	I
18	NA-81-362-5	P	P/C	С	MS-I*
19	хн947	C/P	C/P	С	VS-I*
20	XNH1354	C	С	С	٧s
21	WT176	N	P	P/C	I-T*
22	WT177	N	N	P	T
23	WT179	N/C	C/P	C/P	VS-T*
24	ID 01 80	N	P	P/C	I-T*
25	ID0301	С	С	C	VS
26	MT8039	P	P	C	I

aC, P, and N = complete, partial, and no staining of root tips, respectively.

bVS = very susceptible, MS = moderately susceptible, I = intermediate and T = tolerant (< 0.72 mM Al); * = heterogeneous response; predominant stain intensity listed first for each Al concentration.

QUALITY DATA

Composites of 1-lb samples of each SRPN and NRPN entry from each harvested nursery site are evaluated at the Hard Red Winter Wheat Quality Laboratory at Manhattan, Kansas. Results are reported to cooperators by the laboratory and are not included in this report.

UNIFORM WINTERHARDINESS NURSERIES

The nurseries are comprised of Southern and Northern Materials Sections. In 1988 the Southern Section contained 141 entries and the Northern Section 114 entries. Nursery lists and survival data from test sites at which differential winter survival occurred appear in the tabulations that follow.

SOIL-BORNE MOSAIC NURSERY

The nursery contained 99 entries in 1988. Infection data were reported from Urbana, IL, Lincoln, NE and Manhattan, KS. The nursery list and reaction data are included herein.

1988 Uniform Winterhardiness Nursery Southern Section

Entry			
No.	Variety or Pedigree	Sel. No.	Source
1	Warrior	CI13190	Check
	HiPlains/Wings/3/Parker*4/Agent//Belot.198/Lcr	NE82438	Nebraska
2 3 4	CIMMYT/Scout//Agate/Sage Sib	NE82533	ft
4 5	Brule/3/Parker*4/Agent//Belot.198/Lcr CIMMYT/Scout//Bennett Sib/4/Parker 4*/Agent//	NE82656	11
	Belot.198/Lcr/3/Bez 1/Ctk 78	NE83404	II.
6	II II	NE83406	!!
7	U If	NE83407	11
8	Wrr*5/Agent//Kavkaz/4/Parker*4/Agent// Belot.198/Lcr/3/Vona	NE83498	II.
9	Wrr/Sut//MoW6811/3/Agate Sib/4/NE68457/Ctk78	NE84557	11
10	Scout 66	CI13996	Check
11	Bez 1/Ctk78//Arthur/Ctk78/3/Bennett	NE84581	Nebraska
12	(FNT/MI/Hope)//Pnc/2*Cnn/3/Pnc/3*Cnn/4/ Pnc/2*Cnn//ILL#1-CNS-TT1/Sando60/5/Vona/6/	1120 1002	MODI WOMA
	Wrr*5/Agent//Kavkaz	NE83432	II
13	78GH1051 x Mara/2*Sut//Sentinel (NE74649)	NE85556	ti –
14	84MC22	NE85623	II .
15	Wrr*5/Agent//Kavkaz NE77637xNE63218//Ky58/		
	Nth/2*(CTMH) (NE61983)//Pnc/2*Cnn	NE85707	ti
16	Wrr*5/Agent//NE69441 NE76667xNewton	NE86482	II
17	Colt/3/Wrr*5/Agent//Kavkaz	NE86487	11
18	11 0	NE86488	ii
1 9	li (j	NE86494	II
20	Vona	CI17441	Check
21	Co1t/Cody	NE86499	Nebraska
22	11	NE86501	II .
23	(d	NE86502	ti
24	()	NE86503	11
25	(I	NE86507	l)
26	(1	NE86509	П
27	Colt Sib NE78697/3/Wrr*5/Agent//Kavkaz	NE86527	II
28	Colt/Cody	NE86582	(f
29	Colt//Bez 1/Ctk78//Arthur/Ctk78	NE86592	0
30	Warrior	CI13190	Check
31	Wrr/Sut//MoW6811//Agate Sib NE77615//Cody	NE86606	Nebraska
32	U II	NE86607	11
33	CLLF/Sturdy/3/Diba/Diga//Suwon92/CI13645 /4/NE7060	NE87U101	п
34	6TA131/Dwf Sel 6TA131//Fain Tcl Sel/Ctk78	NE83T12	И
35	Fain Tc1/Ctk78 x Ctk78/6A35/NE69150 x TxTc1#50 //NE69150/S-339//TxTc1#50 x NE69150 x		
20	Tc1 6TA876	NE86T666	11
36	H15A13333/3/5*Larned/Eagle//Sage/4/TAM105	KS87H6	Kansas (Hays)
37	u H u	KS87H15	H H
38		KS87H22	II II
39		KS87H57	11
40	Scout 66	CI13996	Check

H15A13333/3/5*Larned/Eagle//Sage/4/TAM105 GHP2 X211	KS87H58 KS87H63 KS87H64	Kansas (Hays)
n	KS87H65	11
П	KS87H66	IJ
ii .	KS87H67	II .
H15A13333/3/5*Larned/Eagle//Sage/4/Dodge sib	KS87H264	II
Agent/Tascosa//Sturdy	TX71D4876-V5	Texas (Dallas)
Amigo/TX71A106-5	TX82D4751	n ,
Vona	CI17441	Check
TX75D3165/Amigo	TX84D1265	Texas (Dallas)
Victory//Payne/Len	TX86D1305	0
Thunderbird//Norseman/Collin	TX86D1308	U
Thunderbird//Payne/Collin	TX86D1310	11
TX71C8130-R/Veery #4	TX86D1613	BI .
Bulk Selection	Thunderbird	NAPB
OK11252A/W79-1226	Ab i l en e	II .
Experimental Line	XW163	Pioneer
II	HBY261B	ll .
Warrior	CI13190	Check
Experimental Line	HBY756A	Pioneer
U	HBY762A	11
l)	HBY383A	II
li .	HBY385D	II .
Kharkof	CI1442	Check
Scout 66	CI13996	# !!
TAM-105	CI17826	
Aurora/2*TAM W-101	OK84343	Oklahoma
Payne*2/C0725052	0K84286	
Scout 66	CI13996	Check
	0K84287	Oklahoma "
Hawk/0K80099	0K86197	" II
OK79257/Century Sib/2/Chisholm	0K86215	
TAM W-101*4/Amigo*4//Largo	TXGH10989	Texas
Sturdy*3/Amigo	TX81V6582-2	 D
TAM-105*4/Amigo*4//Largo	TXGH10563B TX84V1336	U
KS73146/TX71A1039	TXGH13622	11
TX71A562-6*4/Amigo*4//Largo	TV04V1217	•
TX71A374-4/TX71A1039-V1	,	
Vona TX71A1039-V1*3/Amigo		
TAM-106 resel./TX69D4819		
TAM-108/Arkan		
Rannaya/NE701136//CI13449/Ctk		
II		
74F878/Wings//Vona		
74cb462/Trapper//Vona		
C05926//7C/Tobari 63/3/Baca		
74cb452/Vona//Baca		
Warrior		
TIME I TWI		

## Name	91	Bison/Sterling//3*Scout/3/Eagle/4/	V00401100	K
ST3167/Agate//Sage sib	92	Pinnacle/2*Eagle Bulk Selection	KS84HW196 KS82C2338	Kansas "
94 Wrr/Sut/Mok6811/3/Agate Sib/4/NE68457/Ctk78 55 C1MYT/Scout/JBennett Sib/4/Parker*4/Agent //Belot.198/Lcr/3/Bez 1/Ctk78 76 Brule/Parker*4/Agent//Belot.198/Lcr 88 Winter Wheat Line 89 Winter Wheat Line 80 Kl84667 80 Kl84677 80 Kl84687 80 Kl84677 80 Kl8				Nebraska
CIMMYT/Scout//Bennett Sib/4/Parker*4/Agent				11
		CIMMYT/Scout//Bennett Sib/4/Parker*4/Agent		
			NE83407	ท
98 Winter Wheat Line RL845472 " 99 HRW Selection AGC-112 Seed Research 100 Scout 66 CI13996 Check 101 " AGC-113 Seed Research 102 Bezostaya/TAM W-101/W558 XW161 " 103 TAM H-101/W603/W558 XW161 " 104 Winter Wheat Hybrid XH675 HybriTech 105 " XH665 " 106 Bounty Hybrid Wheat Bounty-122 Cargill 107 " " W180001 108 W79-227/Payne MA-W81-229 NAPB 109 Payne/W78-069 MA-W82-229 NAPB 100 Vona CI17441 Check 111 OK11252A/W79-1226 NA-W81-162-W NAPB 112 I177-4259/I176-3820 I183-7439 I11inios 113 TX569A330/I176-3820 TX87HA TX87HA 114 CHA Hybrid Mustang/3/T-105*4/Amigo*4/Largo TX87HA Texas<	96	Brule/3/Parker*4/Agent//Belot.198/Lcr	NE82656	II .
99 HRW Selection AGC-112 Seed Research 100 Scout 66 CI13996 Check 101 " AGC-113 Seed Research 102 Bezostaya/TAM W-101/W558 XW141 Pioneer 103 TAM W-101/M603/W558 XW161 " Hybrifech 104 Winter Wheat Hybrid XH675 Hybrifech 105 " " XH685 " Hybrifech 106 Bounty Hybrid Wheat Bounty-122 Cargill 107 " WH180001 " HB0001 " HB00	97	Winter Wheat Line	RL844677	Rohm & Haas
101	98	Winter Wheat Line	RL845472	
101				
Bezostaya/TAM W-101/W558				
103				
104				
106				
Doc Bounty Hybrid Wheat				
107				•-
108				Cargill
109				u A m D
110				
111				
112				
TX69A330/IL76-3820				
CHA Hybrid Mustang/3/T-105*4/Amigo*4//Largo, TXGH10289 TX87HA1 Texas				
TXGH10289 115 (7C-CNO/Cal.)/Baca//Vona 116 74F878/Wings//Vona 117 74F878/Wings//Vona 118 74cb452/Vona//Baca 118 74cb462/Trapper//Vona 119 Mir.808/Vona 120 Warrior 120 Warrior 121 Mir.808/Vona 122 " C0840015 " 123 Newton/Baca//Vona 124 Newton/Baca//Vona 125 (CLLF2/Pch)/Vona//Tpr 126 Emy/Ctk//Sandy/3/Vona 127 NS14/NS603//Nwt/3/PB835 128 NS14/NS25//2*Vona 129 Buck Buck "s"/NA434//Vona 129 Buck Buck "s"/NA434//Vona 130 Scout 66 131 F51/F71//77F50362/3/Vona 132 Bez 1/Sava//Ctk/3/C0710125 133 NS14/NS83//Tpr/3/Vona 134 Buck Buck "s"/Ctk//Vona 135 F16/F71//Nwt/3/Vona 136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona 137 Veery "s"/Vona//Pb835 138 Siouxland Composite 139 Siouxland Composite 130 Nebraska 140 Winter Wheat Line TX87HA1 Texas C0820020 " TX87HA1 Texas C0830014 " C0840015 " C0840015 " C0840016 C013190 C0840032 " " C0840032 " " C0840011 " " C0840011 " " C0840011 " " C0840011 " " C0850046 " " C0850046 " " C0850202 " " TX87LD Texas Nebraska Rohm & Haas			1600-1501	
115	~ . . 1		ΤΥΩ7ΗΔ1	Tevas
116	115			
117				
118				O.
119 Mir.808/Vona				n
120				Ð
121	120			Check
Newton/Baca//Vona		Mir.808/Vona		Colorado
124 Newton/Baca//Newton C0840062 " 125 (CLLF2/Pch)/Vona//Tpr C0840111 " 126 Emy/Ctk//Sandy/3/Vona C0840136 " 127 NS14/NS603//Nwt/3/PB835 C0850034 " 128 NS14/NS25//2*Vona C0850060 " 129 Buck Buck "s"/NA434/Vona C0850104 " 130 Scout 66 C113996 Check 131 F51/F71//77F50362/3/Vona C0850166 Colorado 132 Bez 1/Sava//Ctk/3/C0710125 C0850202 " 133 NS14/NS83//Tpr/3/Vona C0850213 " 134 Buck Buck "s"/Ctk//Vona C0850246 " 135 F16/F71//Nwt/3/Vona C0850260 " 136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland SXLD Nebraska 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas			C0840032	н
125			C0840050	
126 Emy/Ctk//Sandy/3/Vona C0840136 " 127 NS14/NS603//Nwt/3/PB835 C0850034 " 128 NS14/NS25//2*Vona C0850060 " 129 Buck Buck "s"/NA434//Vona C0850104 " 130 Scout 66 C113996 Check 131 F51/F71//77F50362/3/Vona C0850166 Colorado 132 Bez 1/Sava//Ctk/3/C0710125 C0850202 " 133 NS14/NS83//Tpr/3/Vona C0850213 " 134 Buck Buck "s"/Ctk//Vona C0850246 " 135 F16/F71//Nwt/3/Vona C0850260 " 136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
127 NS14/NS603//Nwt/3/PB835 C0850034 " 128 NS14/NS25//2*Vona C0850060 " 129 Buck Buck "s"/NA434//Vona C0850104 " 130 Scout 66 C113996 Check 131 F51/F71//77F50362/3/Vona C0850166 Colorado 132 Bez 1/Sava//Ctk/3/C0710125 C0850202 " 133 NS14/NS83//Tpr/3/Vona C0850213 " 134 Buck Buck "s"/Ctk//Vona C0850246 " 135 F16/F71//Nwt/3/Vona C0850260 " 136 Kal/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
128 NS14/NS25//2*Vona C0850060 " 129 Buck Buck "s"/NA434//Vona C0850104 " 130 Scout 66 C113996 Check 131 F51/F71//77F50362/3/Vona C0850166 Colorado 132 Bez 1/Sava//Ctk/3/C0710125 C0850202 " 133 NS14/NS83//Tpr/3/Vona C0850213 " 134 Buck Buck "s"/Ctk//Vona C0850246 " 135 F16/F71//Nwt/3/Vona C0850260 " 136 Kal/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
129 Buck Buck "s"/NA434//Vona C0850104 " 130 Scout 66 CI13996 Check 131 F51/F71//77F50362/3/Vona C0850166 Colorado 132 Bez 1/Sava//Ctk/3/C0710125 C0850202 " 133 NS14/NS83//Tpr/3/Vona C0850213 " 134 Buck Buck "s"/Ctk//Vona C0850246 " 135 F16/F71//Nwt/3/Vona C0850260 " 136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
130 Scout 66 CI13996 Check 131 F51/F71//77F50362/3/Vona C0850166 Colorado 132 Bez 1/Sava//Ctk/3/C0710125 C0850202 " 133 NS14/NS83//Tpr/3/Vona C0850213 " 134 Buck Buck "s"/Ctk//Vona C0850246 " 135 F16/F71//Nwt/3/Vona C0850260 " 136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
131 F51/F71//77F50362/3/Vona C0850166 Colorado 132 Bez 1/Sava//Ctk/3/C0710125 C0850202 " 133 NS14/NS83//Tpr/3/Vona C0850213 " 134 Buck Buck "s"/Ctk//Vona C0850246 " 135 F16/F71//Nwt/3/Vona C0850260 " 136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
132 Bez 1/Sava//Ctk/3/C0710125 C0850202 " 133 NS14/NS83//Tpr/3/Vona C0850213 " 134 Buck Buck "s"/Ctk//Vona C0850246 " 135 F16/F71//Nwt/3/Vona C0850260 " 136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
133 NS14/NS83//Tpr/3/Vona C0850213 " 134 Buck Buck "s"/Ctk//Vona C0850246 " 135 F16/F71//Nwt/3/Vona C0850260 " 136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
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135 F16/F71//Nwt/3/Vona C0850260 " 136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
136 Ka1/Bb//Cj71"s"/3/Hork "s"/4/77F50362/5/Vona C0850267 " 137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				
137 Veery "s"/Vona//Pb835 C0850273 " 138 Siouxland Composite TXSXLD Texas 139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				(I
138Siouxland CompositeTXSXLDTexas139SiouxlandSXLDNebraska140Winter Wheat LineRH7846Rohm & Haas				U
139 Siouxland SXLD Nebraska 140 Winter Wheat Line RH7846 Rohm & Haas				Texas
140 Winter Wheat Line RH7846 Rohm & Haas				
	141	Vona		

1988 Uniform Winterhardiness Nursery Southern Section

	Cassel	ton, ND	Highmo	re, SD	St. Pa	ul, MN	Mead	J. NE
Entry	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
				% surviv	/a1			
4	00	~-	4.5.		100	100	100	100
1 2 3 4	80	75 73	100	100	100	100	100	100
2	80 70	70 20	100	100	100	100 100	100 1 00	100 100
3 1	80	20 80	100 100	100 100	100 100	100	100	100
	80	70	100	100	100	100	100	100
6	85	75	100	100	100	100	100	100
5 6 7	85	75	100	100	100	100	100	100
8	80	75	100	80	100	100	100	100
9	60	50	100	100	100	100	100	100
10	85	60	100	100	100	100	100	100
11	80	55	100	100	100	100	100	100
12	90	60	100	100	100	100	100	100
13	75 22	5	100	100	100	100	100	100
14 15	30 05	20	100	100	100	100	90	90 100
16	85 75	60 40	100	100	100 100	100 100	100 100	100
17	80	40 30	100 100	100 100	100	100	100	100
18	75	0	100	100	100	100	100	100
19	7 5	10	100	100	100	100	100	100
20	45	10	100	100	100	100	100	100
21	60	50	100	100	100	100	100	100
22	55	50	100	100	100	100	100	100
23	50	60	100	100	100	100	100	100
24	60	70	100	100	100	100	100	100
25	65 60	75 75	100	100	100	100	100	100 100
26 27	60 40	75 70	100 100	100 100	100 100	100 100	100 100	100
28	35	70 70	100	100	100	100	100	100
29	50	75 75	100	100	100	100	100	100
30	75	80	100	100	100	100	100	100
31	60	60	100	100	100	100	100	100
32	65	60	100	100	100	100	100	100
33	45	50	100	100	100	100	100	100
34	40	55	100	100	100	100	100	100
35	30	60 60	100	100	100 100	100 100	100	100
36	60 65	60 70	100 100	100 100	100	100	100 100	90 100
37 38	65	60	100	100	100	100	100	100
39	40	60	100	100	100	100	100	100
40	65	75	100	100	100	100	100	100
41	40	80	100	100	100	100	100	100
42	75	80	100	100	100	100	100	100
43	45	85	100	100	100	100	100	100
44	50	85	100	100	100	100	100	100
45	70	85	100	100	100	100	100	100
46	0	30	100	100 100	100 100	100 100	100	100
47	0.	45 55	100 100	100	100	100	100 90	100 100
48	5	55 55	100	40	100	100	90	80
49	5	22	100	70	100	100	30	ου

1988 UWHN, Southern Section

	Casse1	ton, ND	Highmo	re, SD	St. Pa	ul, MN	Mead	, NE
Entry	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
				% surviv				
50	10	60	100	100	100	100	100	100
51		20	100	100	100	100	50	40
52	5 5	90	100	100	100	100	100	100
53	0	20	100	100	Ō	15	20	20
54	5	85	100	60	100	100	100	100
55 56	0 20	70 90	100 100	90 100	0 100	15 100	70 100	60 100
50 57	15	90	100	100	100	100	100	100
58	10	90	100	100	100	100	100	100
59	15	95	100	100	100	100	100	100
60	70	95	100	100	100	100	100	100
61 62	75 50	95	100 100	100	100	100	100	100 100
63	30 30	90 90	100	100 100	100 100	100 100	100 100	100
64	30	90	100	100	100	100	100	100
65	45	90	100	100	100	100	100	100
66	50	90	100	100	100	100	100	100
67 68	30 0	80 60	100 100	100 100	100	100	100	100 80
69	20	75	100	100	100 100	100 100	80 100	100
70	55	90	100	100	100	100	100	100
71	50	85	100	100	100	100	100	100
72	50	75 75	100	100	100	100	100	100
73 74	60 0	70 20	100 30	100 100	100 0	100 50	100	100 80
75 75	5	40	30	100	100	100	80 90	100
76	7 5	80	100	100	100	100	100	100
77	60	30	100	100	100	100	80	100
78 70	45	60	100	100	100	100	90	100
7 9 80	0 20	55 55	100 100	100 100	100 100	100 100	100 100	100 100
81	0	40	100	100	100	100	70	80
82	10	70	100	100	100	100	100	100
83	10	70	100	100	100	100	100	100
84 85	10 10	75 80	100 100	100	100	100	100	100 100
86	0	80 80	100	100 100	100 0	100 7	100 100	100
87	ŏ	75	100	100	100	100	100	100
88	0	80	100	100	100	100	100	100
89	0	45	100	100	100	100	70	100
90 91	30	90 75	100 100	100	100	100	100	100
92	5 5	75 75	100	100 100	100 100	100 100	100 100	100 100
93	30	80	100	90	100	100	100	100
94	40	85	100	90	100	100	100	100
95 06	80	90	100	100	100	100	100	100
96 97	85 50	95 85	100 100	100	100	100	100	100 100
97 98	70	90	100	100 100	100 100	100 100	100 100	100
99	75	95	100	100	100	100	100	100

1988 UWHN, Southern Section

	Casse	ton, ND	Highmo	ore, SD	St. Pa	ul, MN	Mead	, NE
Entry	Rep 1	Řep 2	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
				- % survi				
100	75	95	100	100	100	100	100	100
101	20	85	100	100	100	100	100	90
102	45	85	90	100	100	100	100	90
103	45	85	100	100	100	100	100	100
104	50	85	100	100	100	100	100	100
105	40	85	100	100	100	100	100	100
106	0	70	100	100	100	100	100	100
107	0	70	100	100	100	100	90	90
108	0	75	100	100	100	100	100	100
109	40	90	100	100	100	100	100	100
110	10	80	20	100	100	100	100	100
111	10	80	100	100	100	100	100	100
112	80	95	100	100	100	100	100	100
113	75	95	100	100	100	100	100	100
114	75	95	100	100	100	100	100	100
115	50	90	50	100	100	100	100	100
116	10	85	100	100	100	100	100	100
117	5	70	100	100	100	100	90	100
118	0	70	90	100	100	100	100	100
119	10	75	100	100	100	100	100	100
120	75	95	100	100	100	100	100	100
121	5	25	100	100	100	100	100	90
122	20	75	100	100	100	100	100	100
123	0	70	100	100	100	100	100	100
124		70	100	100	100	100	100	100
125	5	70	100	100	100	100	100	100
126	0 5 0	60	100	100	100	100	100	100
127	0	60	100	100	100	100	100	100
128	0	50	100	30	100	100	100	100
129	0	70	100	100	100	100	100	100
130	30	80	100	100	100	100	100	100
131	0	75	100	100	100	100	100	100
132	0	75	100	100	100	100	100	100
133	5	85	100	100	100	100	100	100
134	0	50	100	100	100	100	90	100
135	0	65	100	100	100	100	100	100
136	0	60	100	100	100	100	100	100
137	0	70	100	100	100	100	100	100
138	50	85	100	100	100	100	100	100
139	60	85	100	100	100	100	100	100
140	5	50	100	100	100	100	100	100
141	5	50	100	100	100	100	100	100
								_



1988 Uniform Winterhardiness Nursery Northern Section

Entry No.	Variety or <u>Pedigre</u> e	Sel. No.	Source
<u></u>	<u></u>		
1	Norstar	CI17735	Check
2 3	NE7763//Ctk/ND7777	ND8501	No. Dakota
3	SD74221//Frd/ND7712	ND8511	an
4	Translocation C/CI8888	ND8523	11
5	ND7601//Ctk/ND7601	ND8530	II
6 7	ND7723//Rrr/ND7620	ND8536	ti
7	Ctk/ND7637//Ctk/ND7655	ND8581	II
8	ND7735-11//Wnk/Newton	ND8585	Į į
9	ND7735-4//Rrr/Solar	ND8589	II
10	Warrior	CI13190	Check
11	ND7735-28/Siouxland	ND85100	No. Dakota
12	u u	ND85103	11
13	ND7735-34/KS79379	ND85105	II
14	ND7735-34/KS79346	ND85111	п
15	1)	ND85114	n
16	ND7735-38/KS79379	ND85118	H
17	ND7620/Siouxland	ND85137	II
18	ND7882/Rose	ND8603	0
19	SD75314/MT7431	ND8626	Ü
20	Centurk 78	CI17724	Check
21	ND7714/SD75314	ND8638	No. Dakota
22	NB / 12 1/ 00 / 00 2 1	ND8640	H
23	0	ND8645	ti .
24	ND7771/SD75284	ND8651	H
25	ND7771/Rrr	ND8654	11
26	11077727117	ND8655	U
27	ND7731/Stoux1and	ND8660	O .
28	Ctk/ND78103	ND8664	D
29	Rose/ND7481	ND8677	I)
30	Norstar	CI17735	Check
31	Rose/ND7481	ND8679	No. Dakota
32	SD73177/ND7703	ND8683	II
33	SD75284/Siouxland	ND8692	lt.
34	SDY SECTY S TOUX FAIR	ND8694	I)
35	II	ND8698	II.
36	ND7659/Agate	ND86105	11
37	ND7611/Rrr	ND86120	H
38	Rrr/NK76W239	ND86136	11
39	Winalta/ND7637	ND86140	íl .
40	Warrior	CI13190	Check
40	Winoka	SDM8127	So. Dakota
	พากอหล	SDM16029	II DAKOTA
42 43		SDM16029 SDM16050	ıı
		SDM16069	ų.
44 45	 II		11
45		SDM16085	

573)) ::!!

Winoka	SDM16091	So. Dakota
U	SDM16116	II
11	SDM16129	U .
II .	SDM16132	IJ
Centurk 78	CI17724	Check
Winoka	SDM16149	So. Dakota
II	SDM16156	II
II	SDM16166	ll .
11	SDM16169	li .
11	SDM16187	ti
(1		11
	SDM16208	14
,,	SDM17011	u.
	SDM17021	0
II	SDM17025	
Norstar	CI17735	Check
Winoka	SDM17032	So. Dakota
ti	SDM17033	li .
II .	SDM17055	II
II .	SDM17074	11
li .	SDM17083	11
U .	SDM17087	lt .
н	SDM17088	II
Winoka	Winoka	ii .
ID0033/PR04930//M1d/Lind	SD87123	II .
Warrior	CI13190	Check
	SD87124	So. Dakota
ID0033/PR04930//M1d/Lind	SD87125	JO: Dakota
" "		ii
· · · · · · · · · · · · · · · · · · ·	SD87126	U
Nwt/SD56281	SD87127	11
H 	SD87128	! !
()	SD87131	
Sage/Art//BTY309/2*Rri	SD87138	
ii ii	SD87140	II
Lcr/Frd//NE69559/Wnk/3/Nell	SD87143	11
Centurk 78	CI17724	Check
Lcr/Cnn//YT0-117-20/Ctk/3/Alab	SD87145	So. Dakota
Sage/Art//Hp1/ND7747	SD87148	II
Lco/Frd//NE69559/Wnk*4/3/TX71A30	SD87155	U
Lcr/Cnn//YT0117-20/Ctk/3/Nwt	SD87141	11
Kharkof	CI1442	Check
Roughrider	CI17439	Pl
Colt	PI476975	II
CI15322//Agate/4*Scout 66/3/Ctk 78/4/SD74221	SD82144	So. Dakota
C115322//Agate/4~3Cout 00/3/Ctk /0/4/3D/4221	SD76463-16	1)
CI15322//3*(Agent/4*Scout66)	CI17735	Check
Norstar	SD82114	So. Dake
SD74221*2/Lathrop	SD78207-4	II
SD76109/Rose	30/020/-4 cn701001	
SD76669*2/KS71591		
Rrr//Yogo/Trapper		
Rrr/3/Froid//Winoka/WW8		
Rrr*2/1809		
Ctk/3/Froid*2//ND363/ND269		
Rrr/F0.1527		
Brule/3/Parker*4/Agent//Belot.198/Lcr		
Warrior		
AMI I IVI		

101 102	<pre>HiPlains/Wings/3/Pkr*4/Agent//Belot.198/Lcr (FTN/MI/Hope)//Pnc/2*Cnn/3/Pnc/3*Cnn/4/ Pnc/2*Cnn//ILL#1-Cns-TTi (CTMH)/</pre>	NE82438	Nebraska
	Sando60/5/Vona/6/Wrr*5/Agent//Kavkaz	NE83432	H
103	Bez 1/Ctk78//Arthur/Ctk78/3/Bennett	NE84581	0
104	OK11252A/W76-1226 (Abilene)	NA-81-362-5	NAPB
105	Winter Wheat Hybrid	XH947	HybriTech
106	II II	XNH1354	II.
107	Kharkov 22 MC/Bezostaya 1	WT176	Lethbridge
108	Norstar/Rrr	WT177	(1
109	II.	WT179	t)
110	Centurk 78	CI17724	Check
111	Turkey/Burt//Bezostaya 1	ID0180	Lethbridge
112	Hg1/ID5006/4/II-60-156/CI14107//It/3/		
	2Cnn/PI178383	ID0301	Idaho
113	Lancota/Froid//NE69559/Wnk	MT8039	Montana
114	Norstar	CI17735	Check

1988 Uniform Winterhardiness Nursery Northern Section

	Canada	Lan Mirk	II de la la comp	
Entry	Cassel ⁻ Rep 1	ton, ND Rep 2	Highmo Rep 1	re, SD Rep 2
<u> </u>			rvival	
1	95	75	100	100
2	80	75	100	100
3	85	85	100	100 100
4 5	90 80	80 75	100 100	100
6	80	75 75	100	100
7	75	80	100	100
1 2 3 4 5 6 7 8 9	85	90	100	100
9	90	90	100	100
10 11	85	75 80	100 100	100 100
12	80 7 5	85	100	100
13	80	95	100	100
14	75	95	100	100
15	80	95	100	100
16	80	95 90	100 100	100 90
17 18	80 75	90	100	100
19	70	90	90	100
20	30	90	100	100
21	75	90	100	100
22	75 20	90	100 100	100 100
23 24	80 75	80 80	100	100
25	85	80	100	100
26	90	90	100	100
27	75	90	100	100 100
28	60 70	85 80	100 100	100
29	70 80	85	100	100
30 31	90	80	100	100
32	85	80	100	100
33	45	80	100 100	100 100
34	70 70	80 80	100	100
35 36	70 75	80	100	100
36 37	90	90	100	100
38	90	85	100	100
39	90	90	100	100 100
40	85	85 05	100 100	100
41	80 70	85 80	100	100
42 43	70 75	80	100	100
43 44	75 75	80	100	100
45	60	75 75	100	100 100
46	40	75 70	100 100	100
47 40	40 35	85	100	100
48 49	25	70	100	100
73	***			

1988 UWHN, Northern Section

Entry Rep 1 Rep 2 Rep 1 Rep 2					
50	و د مطامعه	Cassel			
50 20 60 100 100 51 20 60 70 100 52 25 65 100 100 53 10 60 100 100 54 10 50 100 100 55 10 60 100 90 56 15 55 100 100 57 30 50 100 100 58 10 50 100 100 58 10 50 100 100 60 95 80 100 100 60 95 80 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100	entry	кер т		kep I	Kep Z
51 20 60 70 100 52 25 65 100 100 53 10 60 100 100 54 10 50 100 100 55 10 60 100 90 56 15 55 100 100 57 30 50 100 100 58 10 50 100 100 60 95 80 100 100 60 95 80 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 </td <td></td> <td></td> <td> /o Jui</td> <td>IVIVAI</td> <td></td>			/o Jui	IVIVAI	
51 20 60 70 100 52 25 65 100 100 53 10 60 100 100 54 10 50 100 100 55 10 60 100 90 56 15 55 100 100 57 30 50 100 100 58 10 50 100 100 60 95 80 100 100 60 95 80 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 </td <td>50</td> <td>20</td> <td>60</td> <td>100</td> <td>100</td>	50	20	60	100	100
52 25 65 100 100 53 10 60 100 100 54 10 50 100 100 55 10 60 100 90 56 15 55 100 100 57 30 50 100 100 58 10 50 100 100 58 10 50 100 100 60 95 80 100 100 60 95 80 100 100 61 10 30 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100					
53 10 60 100 100 54 10 50 100 100 55 10 60 100 90 56 15 55 100 100 57 30 50 100 100 58 10 50 100 100 60 95 80 100 100 60 95 80 100 100 61 10 30 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 70 25 45 100 100 <					
55 10 60 100 90 56 15 55 100 100 57 30 50 100 100 58 10 50 100 100 58 10 50 100 100 60 95 80 100 100 61 10 30 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 70 25 45 100 100 </td <td>53</td> <td>10</td> <td>60</td> <td>100</td> <td>100</td>	53	10	60	100	100
56 15 55 100 100 57 30 50 100 100 58 10 50 100 100 59 5 15 100 100 60 95 80 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 <					
57 30 50 100 100 58 10 50 100 100 59 5 15 100 100 60 95 80 100 100 61 10 30 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 69 30 45 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 <					
58 10 50 100 100 59 5 15 100 100 60 95 80 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 <					
59 5 15 100 100 60 95 80 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 75 20 40 100 100 <					
60 95 80 100 100 61 10 30 100 100 62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 75 20 40 100 100 76 10 55 100 100 79 60 80 100 100 80 45 <td></td> <td></td> <td></td> <td></td> <td></td>					
61					
62 10 15 40 100 63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 75 20 40 100 100 76 10 55 100 100 79 60 80 100 100 80 45 75 100 100 81 15 <td></td> <td></td> <td></td> <td></td> <td></td>					
63 5 20 30 100 64 10 45 80 100 65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 75 20 40 100 100 75 20 40 100 100 76 10 55 100 100 78 15 80 100 100 79 60 80 100 100 81 15 75 100 100 82 30 <td>62</td> <td></td> <td></td> <td></td> <td></td>	62				
65 0 35 100 100 66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 75 20 40 100 100 76 10 55 100 100 77 5 80 100 100 78 15 80 100 100 80 45 75 100 100 81 15 75 100 100 82 30 75 100 100	63	5	20	30	
66 0 35 100 100 67 0 25 100 100 68 10 60 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 75 20 40 100 100 76 10 55 100 100 77 5 80 100 100 78 15 80 100 100 79 60 80 100 100 80 45 75 100 100 81 15 75 100 100 82 30 75 100 100 83 85 80 100 100 84 75					
67			35		
68 10 60 100 100 69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 75 20 40 100 100 76 10 55 100 100 77 5 80 100 100 78 15 80 100 100 79 60 80 100 100 80 45 75 100 100 81 15 75 100 100 82 30 75 100 100 83 85 80 100 100 84 75 85 100 100 85 75 85 100 100 86			35		
69 30 45 100 100 70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 75 20 40 100 100 76 10 55 100 100 77 5 80 100 100 78 15 80 100 100 79 60 80 100 100 80 45 75 100 100 81 15 75 100 100 82 30 75 100 100 83 85 80 100 100 84 75 80 100 100 85 75 85 100 100 86 80 90 100 100 87					
70 25 45 100 100 71 40 45 100 100 72 40 50 100 100 73 45 40 100 100 74 30 40 100 100 75 20 40 100 100 76 10 55 100 100 77 5 80 100 100 78 15 80 100 100 80 45 75 100 100 80 45 75 100 100 81 15 75 100 100 82 30 75 100 100 83 85 80 100 100 84 75 80 100 100 85 75 85 100 100 86 80 90 100 100 87 70 60 100 100 87					
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74 30 40 100 100 75 20 40 100 100 76 10 55 100 100 77 5 80 100 100 78 15 80 100 100 79 60 80 100 100 80 45 75 100 100 81 15 75 100 100 82 30 75 100 100 83 85 80 100 100 84 75 80 100 100 85 75 85 100 100 86 80 90 100 100 87 70 60 100 100 100 100 100					100
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78 15 80 100 100 79 60 80 100 100 80 45 75 100 100 81 15 75 100 100 82 30 75 100 100 83 85 80 100 100 84 75 80 100 100 85 75 85 100 100 86 80 90 100 100 87 70 60 100 100 100 100 100					
79 60 80 100 100 80 45 75 100 100 81 15 75 100 100 82 30 75 100 100 83 85 80 100 100 84 75 80 100 100 85 75 85 100 100 86 80 90 100 100 87 70 60 100 100 100 100 100		15			
80 45 75 100 100 81 15 75 100 100 82 30 75 100 100 83 85 80 100 100 84 75 80 100 100 85 75 85 100 100 86 80 90 100 100 87 70 60 100 100 100 100 100					
81 15 75 100 100 82 30 75 100 100 83 85 80 100 100 84 75 80 100 100 85 75 85 100 100 86 80 90 100 100 87 70 60 100 100 100 100 100	80	45	75		
83 85 80 100 100 84 75 80 100 100 85 75 85 100 100 86 80 90 100 100 87 70 60 100 100 100 100 100					100
84 75 80 100 100 85 75 85 100 100 86 80 90 100 100 87 70 60 100 100 100 100 100					
85 75 85 100 100 86 80 90 100 100 87 70 60 100 100 100 100 100					
86 80 90 100 100 87 70 60 100 100 100 100 100					
87 70 60 100 100 100 100					
100 100					
		, 0	U		
200 100				100	100
100 100					100
90 100					
100 100					
100 100					
100 100 100 100					
100 100					
100 100					
80 100				80	100
90 100				90	100

1988 UWHN, Northern Section

	Cassel		Highmo	
Entry	Rep 1	Rep 2	Rep 1	Rep 2
		% Su	rvival	
100	2-	or	100	100
100	35	85	100	100
101	30	90	100	100
102	75	90	100	100
103	65	80	100	100
104	70	70	100	100
105	60	55	100	100
106	65	60	100	100
107	90	90	100	100
108	85	90	100	100
109	90	95	100	100
110	25	35	100	100
111	85	60	100	100
112	75	55	100	100
113	75	50	100	100
114	90	95	100	100

Soilborne Mosaic Nursery

Entry No.	Variety or Pedigree	Sel. No.	Source
1	Pawnee	CI11669	Check
2	HiPlains/Wings/3/Parker*4/Agent//Belot.198/Lcr	NE82438	Nebraska
3	CIMMYT/Scout//Agate/Sage Sib	NE82533	II WAKE
4	Brule/3/Parker*4/Agent//Belot.198/Lcr	NE82656	11
5	CIMMYT/Scout//Bennett Sib/4/Parker 4*/Agent//	NEOZOJO	
J	Belot.198/Lcr/3/Bez 1/Ctk 78	NE83404	n .
£		NE83406	0
6 7	u B	NE83407	n
8	Wrr*5/Agent//Kavkaz/4/Parker*4/Agent//	NE03407	
9	Belot.198/Lcr/3/Vona	NE83498	II .
9	Wrr/Sut//MoW6811/3/Agate Sib/4/NE68457/Ctk78	NE84557	II .
10	Concho	CI12517	Check
11	Bez 1/Ctk78//Arthur/Ctk78/3/Bennett		
12	(FNT/MI/Hope)//Pnc/2*Cnn/3/Pnc/3*Cnn/4/	NE84581	Nebraska
12			
	Pnc/2*Cnn//ILL#1-CNS-TT1/Sando60/5/Vona/6/ Wrr*5/Agent//Kavkaz	NEGRARA	Н
13		NE83432	
	78GH1051 x Mara/2*Sut//Sentinel (NE74649)	NE85556	n .
14 15	84MC22	NE85623	"
15	Wrr*5/Agent//Kavkaz NE77637xNE63218//Ky58/	UE06707	II
16	Nth/2*(CTMH) (NE61983)//Pnc/2*Cnn	NE85707	n D
16	Wrr*5/Agent//NE69441 NE76667xNewton	NE86482	11
17	Colt/3/Wrr*5/Agent//Kavkaz	NE86487	ir
18	 II II	NE86488	" "
19		NE86494	
20	Bison	CI12518	Check
21	Colt/Cody	NE86499	Nebraska
22	 II	NE86501	II H
23	 N	NE86502	
24	" (f	NE86503	D U
25	υ 1)	NE86507	
26		NE86509	11
27	Colt Sib NE78697/3/Wrr*5/Agent//Kavkaz	NE86527	a .
28	Colt/Cody	NE86582	
29	Colt//Bez 1/Ctk78//Arthur/Ctk78	NE86592	
30	Pawnee	CI11669	Check
31	Wrr/Sut//MoW6811//Agate Sib NE77615//Cody	NE86606	Nebraska
32		NE86607	"
33	CLLF/Sturdy/3/Diba/Diga//Suwon92/CI13645		
	/4/NE7060	NE87U101	II
34	H15A13333/3/5*Larned/Eagle//Sage/4/TAM105	KS87H6	Kansas (Hays)
35	H H	KS87H15	
36	ti li	KS87H22	II
37	(I II	KS87H57	II
38	II II	KS87H58	II •
39	GHP2 X211	KS87H63	
40	Concho	CI12517	Check

41	CUDO VOLI		
42	GHP2 X211	KS87H64	Kansas (Hays)
43		KS87H65	11003 (11033)
43 44		K\$87H66	II
45		K\$87H67	II
46	H15A13333/3/5*Larned/Eagle//Sage/4/Dodge sib	KS87H264	(i
40 47	Experimental Line	XW163	Pioneer
48	 II	YW171	11
49	 (f	HBY261B	II
50	Bison	HBY756A	n
51		CI12518	Check
52	Experimental Line	HBY762A	Pioneer
52 53		HBY383A	11
54	U	HBY385D	11
5 5	II	HBY517A	ti
56		W2439G	FI
57		HBY262F	II
58	W79-227/Payne	NA-W84-229	NAPB
59	0K11252A/W79-1226	NA-W81-162	H
6 0	Payne/W78-069 Pawnee	NA-W83-256-W	11
61		CI11669	Check
62	II18889/Tpr//C0652643/3/Baca	Hawk	NAPB
63	SN/Tpr//Wrr/3/II18889/Tpr//C0652643	Mustang	11
64	Payne*2/C0725052	0K84286	0k1ahoma
65	Hawk/0K80099	0K84287	II
66		0K86197	11
67	OK79257/Century Sib/2/Chisholm	OK86215	11
68	TAM-106 resel./TX69D4819 TAM-108/Arkan	TX84V1736	Texas
69		TX86A7041	II .
70	Rannaya/NE701136//CI13449/Ctk Concho	TX86V1109	II .
71		CI12517	Check
72	Rannaya/NE701136//CI13449/Ctk 74cb452/Vona//Baca	TX86V1110	Texas
73	Winter Wheat Line	C0830014	Colorado
74	Winter Wheat Line	RL844677	Rohm & Haas
75	HRW Selection	RL845472	**
76	11 11 11 11 11 11 11 11 11 11 11 11 11	AGC-112	Seed Research
77	TAM W-101/W603//W558	AGC-113	
78	Winter Wheat Hybrid	XW161	Pioneer
79	II II	XH675 XH685	HybriTech
80	Bison	CI12518	Check
81	11 11	WH180001	Cargill
82	IL77-4259/IL76-3845	IL83-7439	Illinios
83	TX69A330/IL76-3820	IL80-1251	11111102
84	CHA Hybrid Mustang/3/T-105*4/Amigo*4//Largo,	100-1231	
	TXGH10287	TX87HA1	Texas
85	Rrr/F0.1527	ND8460	No. Dakota
86	(FTN/MI/Hope)//Pnc/2*Cnn/3/Pnc/3*Cnn/4/	1100100	no. bakota
	Pnc/2*Cnn//ILL#1-Cns-TTi (CTMH)/		
	Sando60/5/Vona/6/Wrr*5/Agent//Kavkaz	NE83432	Nebraska
87	Winter Wheat Hybrid	XH947	Hybritech
88	(1)	XNH1354	11
89	Hg1/ID5006/4/II-60-156/CI14107//It/3/	·····	
	2Cnn/PI178383	ID0301	Idaho
90	Pawnee	CI11669	Check
			-

91	Winter Wheat Line	RH7846	Rohm & Haas
92	Agent/Tascosa//Sturdy	TX71D4876-V5	Texas (Dallas)
93	Amigo/TX71A106-5	TX82D4751	u ,
94	TX75D3165/Amigo	TX84D1265	44
95	Victory//Payne/Len	TX86D1305	II .
96	Thunderbird//Norseman/Collin	TX86D1308	II .
97	Thunderbird//Payne/Collin	TX86D1310	II .
98	TX71C8130-R/Veery #4	TX86D1613	II .
99	Concho	CI12517	Check

1988 SOILBORNE MOSAIC NURSERY Disease Scores

			······································			
Entav	<u>Urban</u> Rep 1	a, IL Rep 2	Linco	ln, NE Rep 2	Manhat Rep 1	
Entry	U	Rep 2 -9	Rep 1	-5	R.	Rep 2 -S
		- J	- v	•		J
1	7	6	3	3.5	S	S
2	6	6 3 4	3 3 4 4	4 2.5	S S R MS	S
3	5	4	3	2.5	R	R
4	5	5	4	4	WZ	2
5	ნ 7	5 7 7	4	4 4	2	S
7	6	7	3.5	4	S	\$
2 3 4 5 6 7 8 9	5 5 6 7 6 6 8 3 4		3.5 3.5 4 2 2 4	4	S S S R	Š
9	8	7 6	4		R	R
10	3	4	2	3.5 2.5 3 4	R	Ŗ
11		4	2	3	R	R
12	8	8	4	4 2 E	R S	K
13 14	8	/	ა 1	3.5	S R	S R
14 15	8 8 5 7	6	3 1 4	3.5 2 3.5	R	R
15 16	6	5	4	4	Ŕ	R
<u>17</u>	8	7	4	4	MS	S
18	7	7	4	4	Š	S
19	6 8 7 6 6 6 5 5 7 6	874657766656767787	4 4 4 3.5 3	4	R R MS S S S MS	S S R S S S S S R R R R R S R R R S S S S M MS
20	6	ნ <i>6</i>	J.5	3.5 3.5	WC 2	MS
21 22	5 5	о 5	3.5	4	MS	MR
23	5	õ	4	4	MS	MR
24	7	7	4 3.5	4 3.5 3.5	MR	MR
25	6	6	3.5	3.5	MR	MR
26	7 8 6 7 7 7	7	4	3.5	MS	MR MS
27	8	/ p	4 4	4 3.5	S R	
28 29	7	7		3.5 3.5 3.5	R MS	R R
30	ל	7	3.5	3.5	MS	MR
31	7	7	3.5	3.5	R	R
32	7	7	3.5	3.5	R R	R R MR
33	7 7 8	7	4 3.5	4 3.5	R R	MR
34		7 9			_	MR
35 36	e A	8	4	3.5	S	\$
30 37	8	8	3.5	3.5	S	Ş
38	8	8	3.5	4	\$	S
39	7	7	3.5	კ.5 1	אויג ס	Ŕ
40	4	2	4	3	MS	MS
41	Б 6	7	3.5	3	R	R
4 <u>2</u> 42	4	6	3.5	3	R	Ŗ
44	5	6	3	3	R	R
45	6	4	2.5	2.5	R	K D
46	4	4	3	2 5	R R	R
47	4	3	1	2.5	R S S S M R M R R R R R R R M S	MR SSSRRS RRRRRRS S
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	888874664564434	8 8 8 7 2 7 7 6 6 4 4 3 2 2 2	3.5 4 3.5 5 5 5 5 5 5 5 1 1 1 1	3.55 3.5 4.5 1.3 3.3 3.5 2.2 2.2 2.2	S	\$
49	4	4	•			

*U.S. GOVERNMENT PRINTING OFFICE:656-497:1984

1988 Soilborne Mosaic Nursery

_	Urbar	ia, IL	Linco	ln, NE	Manhatt	an, KS
Entry	Rep 1	Rep 2	Rep 1		Rep 1	Rep 2
	()-9	()	-5	R-	S
Entry 5015535555555555566666666777777789012345667899999999999999999999999999999999999	Rep 1 7 3 3 3 6 5 4 6 2 6 7 7 2 8 9 8 7 2 7 9 5 7 7 2 3 7 6 8 5 6 7 6 2 7 6 6 7 7 4 7 9 8 4 - 7	Rep 2 0-9 7322533836737883997377857843758866763877747985-674	Rep 1	Rep 2	REP - SMRRSMRRSRRSSRSSSRSSRSSMRRSRRSRRSRRSSRSS	Rep 2
99	4	4	3	2	R	R